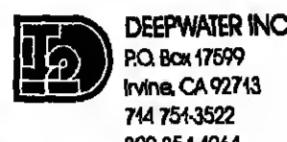


August 4, 1986

Chemical Marketing Reporter

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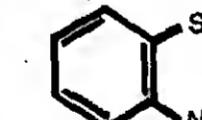
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	July 3, 1986	152.62
	June 13, 1986	152.45
	July 12, 1985	156.85

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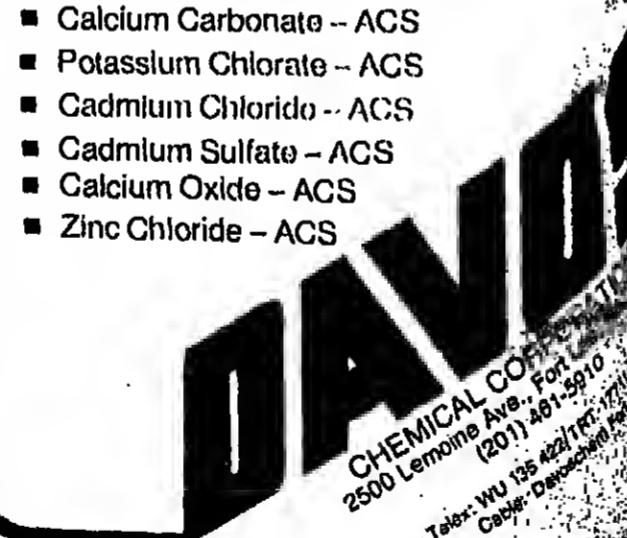
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CHEMICAL MARKETING

PHthalic Anhydride: Price increases have been a success.

Sodium Sulfate: Demand and capacity are on their downward course.

Parabens: Prices are higher than prices of better producers say.

Carbon Black: Oil's decline is still on. One-cent cut.

Chemical Marketing Reporter

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NEWSPAPER • SECOND CLASS POSTAGE

AUGUST 11, 1986

Waste Sites Debated 3

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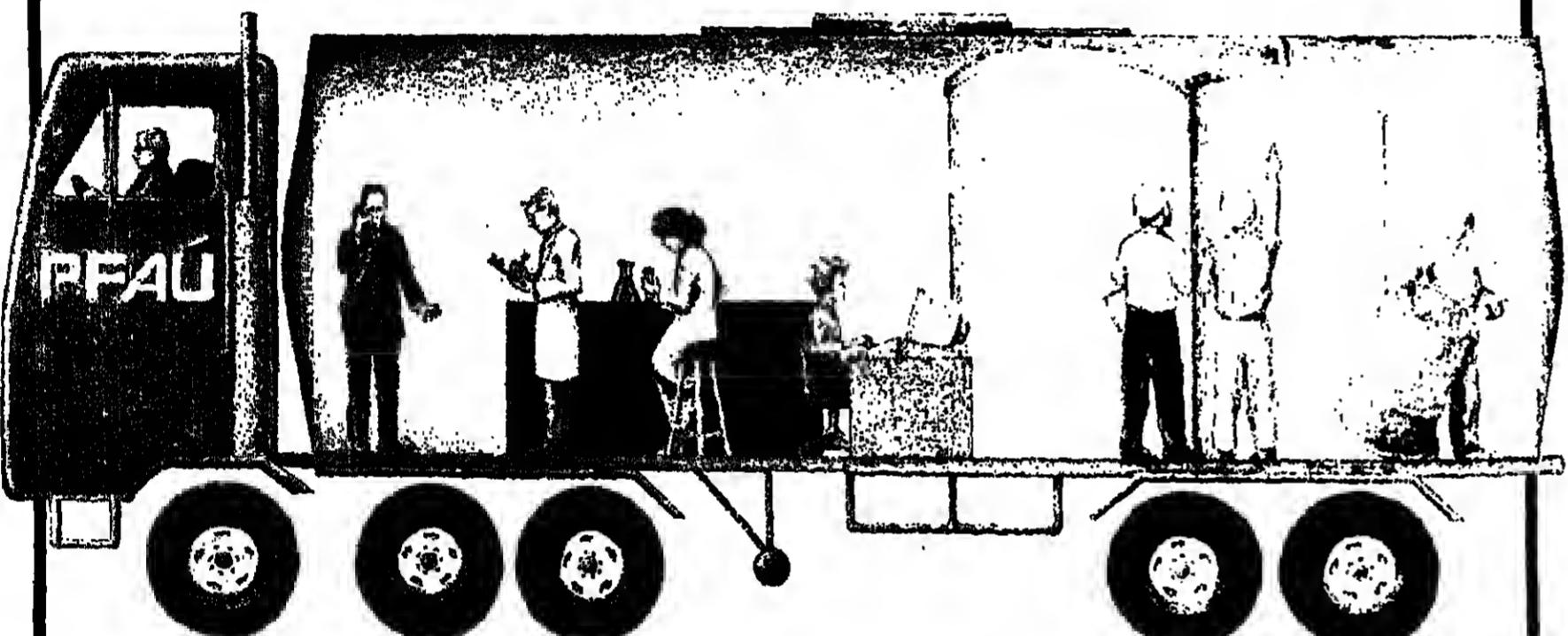
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Hazardous Waste Treatment

More stringent requirements for drivers who transport hazardous materials as well as national licensing standards were approved last week by a Senate panel.

"The public is entitled to professional and unimpaired performance," said Sen. John Danforth, R-Mo., chairman of the Senate Commerce Committee, as the bill cleared the panel.

The House has not begun work on the measure to reauthorize the Hazardous Materials Transportation Act whose main critic is the Reagan Administration. It says rules being formulated in the Transportation Department eventually should make the measure unnecessary.

There was no dissent against the Danforth bill, which would authorize DOT to cut Federal highway funds by 5 percent for states not in compliance with the standards by Sept. 1, 1990.

An additional 5 percent annual cut would be approved for states that remained out of compliance.

Under the legislation, DOT would establish minimum licensing standards for the states by March 1, 1988. They would include written and behind-the-wheel tests for all commercial drivers and special provisions for drivers of tank trucks and other vehicles containing hazardous wastes.

Hazardous materials drivers would be required to pass tests demonstrating their knowledge of hazardous materials regulations, properties and handling of hazardous materials, and emergency response procedures.

They would also have to demonstrate their ability to handle the vehicle and operate safety equipment.

A study released by the Office of Technology last month said more than 80 percent of truck accidents and spills involving hazardous materials are due to human error either by drivers or other workers such as loaders.

Pesticide Reform: Gain This Week?

The Senate Agriculture Committee expects to complete work on legislation overhauling the nation's basic pesticide law this week before Congress adjourns for its Summer recess, but the panel must still deal with two controversial issues — patent term restoration and data compensation.

The committee has been considering a bill approved by the House Agriculture Committee June 18 to reform and reauthorize the Federal Insecticide, Fungicide & Rodenticide Act.

The Senate panel, chaired by Sen. Jesse Helms (R-N.C.), has agreed to most of the major provisions of the House bill, which primarily seeks to speed up the Environmental Protection Agency's review, or "reregistration," of approximately 800 pesticide active ingredients that were approved for use before November 1984.

The review is intended to determine whether these building block ingredients meet current health and safety testing requirements, and to assess the safety of continued registration of the chemicals.

However, the senators agreed last week to amend the House bill to include a comprehensive program for protecting groundwater against pesticide contamination.

Sponsored by Sen. Paula Hawkins (R-Fla.), the amendment would require EPA to establish groundwater residue guidance levels for pesticides that have the potential of leaching

into subsurface water, or have been detected at three sampling points or in a drinking well that serves over 10,000 people.

The provisions, which have the support of EPA, the chemical industry and environmental organizations, are expected to provide a

Continued on Page 22



Robert P. Bauman, vice-chairman of Textron Inc., who has been named chairman of the Bascham Group, the \$4 billion pharmaceuticals and consumer products company based in Middlesex, England.

Sunflower Oleic Raised By Lubrizol Corporation

Later this month, a division of Lubrizol Corporation will begin harvesting a new strain of sunflowers that has a 400 percent higher concentration of oleic acid in the crude sunflower oil than conventional crude oil. The company is also working to develop a new form of rapeseed with a sharply higher concentration of erucic acid than current forms of the crop.

The company's aim is to market 80 percent oleic acid crude sunflower oil as a specialty product to the food and chemical industry. The company says it sells the oil as a "premium vegetable oil" in a wide range of edible products ranging from frying oil for potato chips to infant formula.

As an industrial chemical, Lubrizol says the high oleic acid is marketed as a high performance, specialty product in a wide range of applications including detergents, plasticizers, and lubricants.

The new plant is the product of a broad range of research and development by Lubrizol scientists that combined mutagenesis, recombinant DNA technology, and pollen cross breeding techniques. About 90,000 acres of the seed were planted this year and Lubrizol

expects to process 40 million pounds of the crude oil, according to Bruce H. Grasser, vice-president of Lubrizol Enterprises.

The engineered sunflower plant program is run by a unit of Lubrizol called SVO Enterprises Corporation, Columbus, Ohio. Research on the new strain of sunflower was begun by Sigco, a Breckenridge, Minn.-based sunflower seed company which Lubrizol acquired in 1982.

SVO Enterprises, formed in 1984, harvested its first high oleic sunflower crop last year, and processed 8.5 million pounds of crude oil for sale to the food industry.

This year, in addition to marketing the crude oil, Mr. Grasser says the company will offer two high-stability, edible specialty oils in the fourth quarter, and perhaps a chemical derivative of oleic acid. Mr. Grasser says the highly refined and purified oils coming onto the market will prevent foods from turning rancid without affecting the color or taste of the food.

While developing and marketing a premium oil for the food market, Mr. Grasser says the company's making a strong push for the oil into the chemical business, where they

Continued on Page 24

Chemical Firms Join Coalition on Rail Fees

A coalition of more than 2,000 large and small shippers dependent upon the railroad industry for transportation urged the Interstate Commerce Commission last week to revise the current standards employed to determine the financial health of the railroad industry.

"Changes in revenue adequacy determinations are long overdue and will make a significant contribution to providing a more realistic picture of railroad financial condition," the shippers said in statements filed with ICC. The Fertilizer Institute and Chemical Manufacturers Association were among the participants in the filing.

ICC is currently reviewing its system for determining the revenue adequacy of individual railroads. The present method is based on a return-on-investment/cost of capital standard, which has been the subject of much controversy.

Under the system, ICC has found that no Class I carriers were revenue adequate in 1984, even though the industry appears to be in good health as demonstrated by recent investment moves, such as Norfolk Southern's bid for Conrail.

The coalition also urged ICC to support treatment of deferred taxes as a zero-cost source of capital; use of the embedded cost of debt in determining the overall cost of debt; and the actual book values of debt and equity for determining capital structure rates.

An accurate determination of the railroads' financial health is of critical importance to shippers because the financial health of a railroad — or its revenue ade-

quacy — is a factor in determining a captive shipper's transportation rates.

Until a railroad reaches revenue adequacy, ICC grants railroads great ratemaking freedom even where no practical competitive transportation alternative exists.

Shippers have long complained, and the ICC has recently acknowledged, that current standards for railroad revenue adequacy do not accurately reflect the financial condition of the railroad industry.

The coalition urged the ICC to support revised rules to assure that the revenue adequacy analysis focuses exclusively on rail-related activities of each carrier. Currently, inclusion of non-railrelated information, such as income tax expenses for non-rail affiliates, distorts the ICC's analysis, the shippers said.

The group also recommended the continuation of original cost accounting. Dr. Alfred E. Kahn, an economist who joined in the filing, said the original cost standard is a "fully sufficient and valid test of revenue adequacy, and is far superior to replacement costs on grounds of accuracy, verifiability, and administrative practicality."

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quacy — is a factor in determining a captive shipper's transportation rates.

The purpose of the proposed joint venture is to even out the supply and demand balance, as well as to have a ready source of raw material, a Reichhold spokesman says. By combining resources, the companies can protect against a shortfall of one of the products on one side against a shortfall of another material on the other side, the spokesman says.

Hercules and Reichhold are the only two independent producers of the materials involved. Competing producers are vertically integrated paper companies, most notably Georgia-Pacific, Union Camp, and Westvaco. The talks are considered a signal to the industry that Hercules and Reichhold are determined to stay in the business.

Industry analysts suggest the proposed joint venture is a cost-saving measure.

Continued on Page 11

DuPont Philips Venture Opens US Center for Optical Disks

Philips & Du Pont Optical Company Nieuwegein, the Netherlands, has announced the opening of a new marketing and technical center within the United States.

The PDO facility, located at Poulkerton Plaza near Wilmington, Del., will be responsible for marketing and technical applications development of optical discs for the information storage and retrieval markets worldwide.

"PDO is the result of a joint venture between the DuPont Company and N.V. Philips of the Netherlands. Both companies have combined their existing compact disc (CD) and high-density information storage disc operations, with the goal of becoming the world's pre-eminent supplier of optical discs."

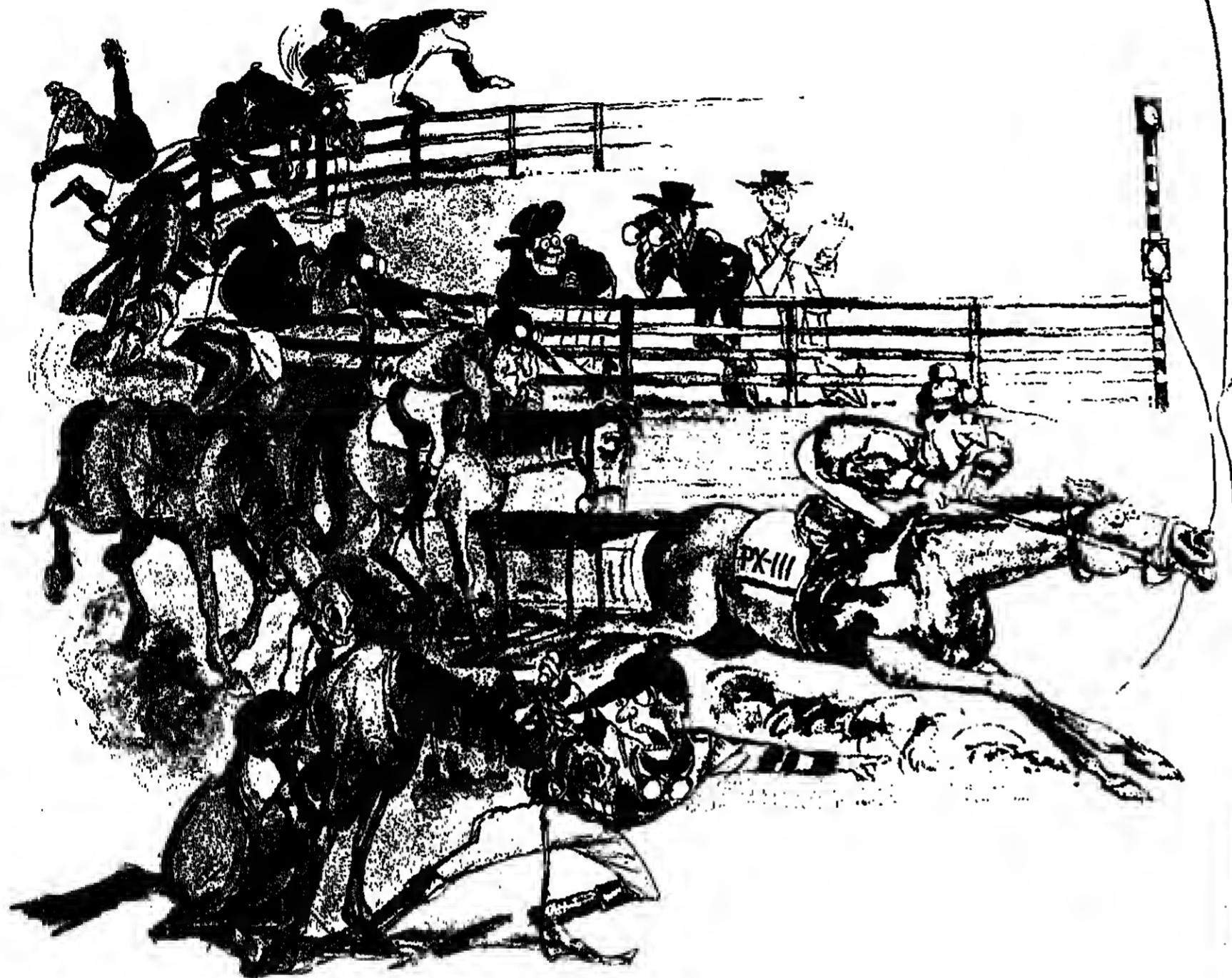
Mr. Spangler noted that PDO's annual research and development program is anticipated to be \$80 million by 1990 and that by then the venture will employ approximately 3,500 people at about 10 facilities worldwide.

"In addition to opening the new marketing and technical center, we also have construction well under way on our first U.S. manufacturing plant, which will become operational before the end of this year. We plan to be delivering audio discs to stores in time for this year's Christmas shopping. This manufacturing facility is located in Kinston, North Carolina," he said.

According to Robert Spangler, PDO's director of marketing, the company is expected to generate annual sales of about \$1 billion in the early 1990s.

He said, "PDO has unmatched technological, manufacturing and marketing strengths. The initial assets of the company include the

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News Capsule

Monsanto Sells Division

Monsanto Chemical Company, an operating unit of Monsanto Company, has completed the sale of the Equipment Division of Radiation Dynamics Inc., Melville, N.Y., to Sumitomo Heavy Industries Ltd. of Tokyo for an undisclosed amount. Radiation Dynamics manufactures high energy electron beam accelerators for the tire, medical, wire and cable, electric utilities and food industries. Monsanto said the sale is designed to better position the company to attain its strategic objectives.

Gro Group Buys Assets

Gro Group Inc. has completed the acquisition of the business and certain assets of the Chemical Packaging Division of Georgia-Pacific Corporation for \$38 million in cash. Included in the purchase is the "Aqua Chem" pool chemical product line and the division's private label and brand name household cleaning products. The purchase price is subject to a post-acquisition audit. Gro Group produces specialty chemical coatings, private label household products and OTC pharmaceuticals, health and beauty aids.

Cyanamid VP Appointed

W. Perry Brown, corporate vice-president and director of American Cyanamid Company's personnel division, has been appointed to the White House advisory committee on federal pay, which was established in 1970 to advise the President on salary issues for Federal employees. Mr. Brown's term expires in January 1982. Prior to joining Cyanamid in 1976, Mr. Brown held executive positions with Merck & Co. and Hudson Pulp & Paper Corporation.

BP Signs Accord

BP Chemicals Americas Inc. and Sterling Chemicals Inc. have completed an agreement giving BP exclusive rights to produce from the acetic acid plant at Sterling's Texas City, Tex., site. "BP Chemicals already is the largest acetic acid producer in Europe and this agreement enables BP Chemicals Americas to have a significant presence in the US market as well," the company says. An agreement in principle had been announced in June.

Rohm and Haas Buys

Plaskon Electronic Materials Ltd., a subsidiary of Rohm & Haas Company, has acquired Morton Thiokol's Singapore plant and the rights to the epoxy encapsulants which are manufactured there. The products are used by the semiconductor industry for integrated circuits, relays, resistors and capacitors. Terms of the acquisition were not disclosed.

Alcoa Sells Unit

Alcoa has sold Buckeye Molding Company, a plastic packaging subsidiary in New Vienna, Ohio, to Packaging Resources Inc. of Mt. Carmel, Pa. Packaging Resources is a wholly-owned subsidiary of Peck-Lynn Group Ltd., Chicago. Buckeye Molding, which has annual sales of about \$30 million, manufactures plastic food packaging products. Packaging Resources, with annual sales of more than \$25 million, manufactures and sells packaging materials for the food and beverage industries.

Dover Enters Market

Dover Chemical Corporation, a wholly-owned subsidiary of ICC Industries Inc., has entered the organophosphate market with the completion of a new 7,500-square-foot plant in Dover, Ohio. The plant is capable of producing "volume quantities" of diphenyl isodecyl phosphate, phenyl diisodecyl phosphate and TNPP, used by the plastics, rubber and allied products industries.



Robert A. McMillan, who has been elected vice-president and treasurer of B.F. Goodrich Company. He was previously director of planning and development.

EPA Okays A Biotech Test At Montana Site

Environmental Protection Agency says a Montana State University scientist can proceed with the small-scale field testing of four strains of a fungus, which has been genetically altered by exposure to ultraviolet irradiation.

Dr. David Sands is proposing to field test altered strains of the fungus *Scerotinia sclerotiorum* to assess their efficacy as herbicides against the weeds Canada thistle and spotted knapweed.

EPA says the field test will be carried out at a site in the state of Montana over a two-year period. The test will cover an area that is smaller than one acre.

The agency says that based on the data that it has collected on the fungus, it has determined that the potential risk of small-scale field testing of the altered strains is minimal. Consequently, EPA says it will not requiring an experimental-use permit.

Hoechst Hikes Its Rigid PVC By 50 Percent

American Hoechst Corporation plans to expand its capacity for rigid polyvinyl chloride film by nearly 50 percent.

The company will install, at its Delaware, Del., plant, a new calender line using new technology developed in cooperation with Hoechst engineers in Europe.

"The US market for rigid PVC film will continue to grow at rates well in excess of the gross national product, and this investment will enable us to improve our leadership position of producing and marketing rigid PVC film and sheet," says David R. Beresford, vice-president and general manager of the American Hoechst PVC film products business unit.

The project is expected to cost more than \$10 million.

Drug Bill Gains

The Senator Labor & Human Resources Committee last week approved legislation to allow the submission of abbreviated new animal drug applications for generic equivalents, and to restore up to five years of the patent terms for pioneer animal drugs to make up for exulgious marketing time lost in the Food & Drug Administration approval process.

Phillips Petroleum Reaches Debt Goal

Phillips Petroleum Company says it has essentially reached its goal of selling off \$2 billion in assets as part of its debt reduction program begun early last year.

The company says the recent sale of carbon black operations in US and Europe, coupled with the closing of a sales contract with Shell Oil Company covering several onshore and offshore oil exploration and production properties, has pushed the total from the asset sales program to over \$1.95 billion. Negotiations for the sale of some other "minor" assets continue, the company says.

The latest \$250 million in assets sales completed by Phillips include a 135 million-pound-per-year carbon black plant located in Orange, Tex., which was sold in June to J.M. Huber Corporation.

At about the same time, Phillips sold a carbon black company in Hannover, West Germany to Columbian International Chemicals Corporation. The oil company also sold its minority interest in Negromax, a company that makes rubber, carbon black and other chemicals.

On August 1, Phillips sold its Huntington Beach, Calif., oil field to Shell. The field, 27 miles south of Los Angeles, totalled almost 6,000 acres of onshore and onshore lease sites and was producing about 12,000 net barrels of oil daily.

In addition, Shell oil bought Phillips Beta

Field, a 1,650 barrel per day Federal lease site just north of Huntington Beach, and five undeveloped offshore blocks called the Lion Rock Unit, located north of Point Arguello. Shell also purchased several smaller tracts on shore and offshore in California.

By the end of 1986, C.J. Cilas, Phillips' chairman and chief executive officer says the company's debt will fall below \$8 billion, down from the \$8.6 billion peak reached in early 1985. A large portion of the debt was accrued in fending off takeover attempts by T. Boone Pickens and Carl Icahn.

Phillips sold or contracted to sell \$1.4 billion in assets through year-end 1985. Two of the larger properties sold last year were Geyors Geothermal Company, which went to Freeport McMoran last Fall for \$215 million, and Netherlands Oil & Gas properties, which was sold last September to Newmont Oil Company for \$165 million.

In 1986, Phillips turned its attention toward its chemical properties, particularly its large stake in the ailing carbon black industry.

In February, Phillips sold its Midwest Fertilizer Company unit and American Fertilizer & Chemical Company unit to CPEX, Inc. and its 49.8 percent stake in a Belgium petrochemical plant to Petrochim SA.

Then the company began selling its carbon black units. In April, deals were closed to sell the 275-million pound per year carbon black unit in Borger, Tex., to Sid Richardson Carbon & Gasoline Company.

NL's 'Pill' Overturned

ownership of 20 percent of NL's 60 million outstanding common shares.

Judge

Vincent L. Broderick of Federal Court had struck down the anti-takeover measure, terming it an "illegal device" because it would effectively bar anyone from taking over the company. NL's lawyers had noted that more than 130 companies, including Allied-Signal Inc., J.C. Penney Company and Time Incorporated have adopted such anti-takeover measures.

NL's

defending itself against a hostile

takeover bid by a group of investors led by Harold Simmons, of Dallas, Tex. Through their vehicle, NL Acquisition Corporation, the investors are in the midst of a tender offer for NL's shares.

Then

the

Second

US

Court of Appeals will hear arguments on August 28 on NL's anti-takeover measure, which entitles stockholders to purchase shares at half-price after any unapproved acquisition of NL. Meanwhile, the acquisition group has been enjoined from purchasing any additional NL shares. The group now claims

by

Judge

Broderick

contention that NL's "poison pill" is a more restrictive and discriminatory than

others.

NL

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OPEC Oil Move Prompts Shift In Policy of US on Reserve

President Reagan has decided to fill the Strategic Petroleum Reserve, at a 750-million-barrel level as "the best defense" against the impact of rapid crude oil price hikes and supply interruptions.

The White House said last week.

"The US market for rigid PVC film will continue to grow at rates well in excess of the gross national product, and this investment will enable us to improve our leadership position of producing and marketing rigid PVC film and sheet," says David R. Beresford, vice-president and general manager of the American Hoechst PVC film products business unit.

The decision was announced shortly after OPEC agreed on sharp production cuts for two months in an attempt to restore slumping oil prices.

President Reagan made the decision after a domestic policy council meeting, according to spokesman Larry Speakes.

"Reaffirmation of our goal of a 750-million-barrel Strategic Petroleum Reserve demonstrates the President's continued leadership and commitment to our allies that holding strategic stocks is the best defense against the effects of rapid price escalation or supply interruptions," Mr. Speakes said.

The reserve was created in the Carter Administration to maintain an emergency supply of oil in case of price and diplomatic instability among Middle East oil-producing nations.

Prices are relatively low now, although they may rise as the result of OPEC's decision to trim production. Energy Secretary John Herrington said he believes oil prices

will eventually settle somewhere \$15 and \$20 per barrel.

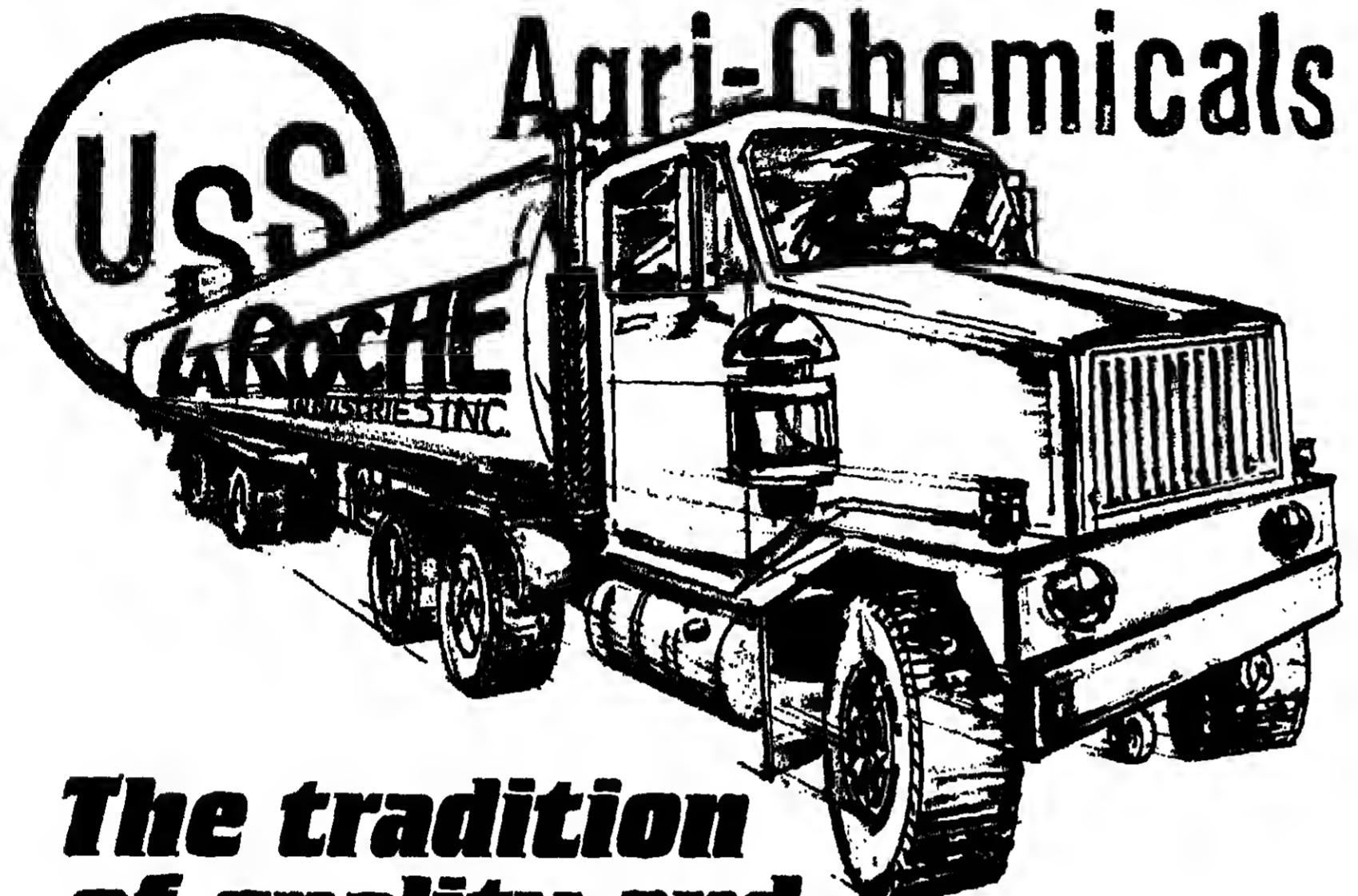
Opponents have cited budgetary restraint as a reason for not filling the reserve, which now contains about 603 million barrels, most of it purchased from Mexico.

"The President committed the Administration to continue filling the reserve through fiscal year 1987," Mr. Speakes said. "He gave Mr. Herrington the discretion to exceed the current congressionally approved rate, should oil prices make this an economically attractive choice."

He said President Reagan also urged other oil-consuming nations to take similar action, stressing that strategic stockpiles are the best defense against world oil supply disruptions.

The Energy Department has been filling the reserve at a rate of 50,000 barrels per day under congressional approval that lasts until September 30.

Mr. Herrington said he has been a proponent of an aggressive fill rate, as aggressive as we can get with these prices." He said he would like to see the government add 100,000 barrels per day, but acknowledged that the tight budget would likely rule out such a move.



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OILS, FATS & WAXES

Hercules, Reichhold Mull

Continued from Page 7

aimed at consolidating the newer, higher-quality facilities of both companies, while eliminating the ones that may need expensive repairs.

Rather than run several small capacity plants of varying degrees of efficiency, the two companies would combine their best facilities to form one or two "world class" capacity operations, and abandon older facilities, the sources say.

This is thought unlikely, right now, however, as the high level of demand for the resins and fatty acids would make it unwise for the companies to shut down production facilities at either company.

Hercules plants considered potential candidates for any joint venture that may arise from the talks include tall oil fractionating plants in Portland, Ore., Franklin, Va.; Savannah, Ga.; and Burlington, Ontario, Canada.

These plants all produce tall oil fatty acids and resins. In addition, the wood rosin extraction plants in Brunswick, Ga., and Hettiesburg, Miss., would be considered for inclusion. The wood stumps operation in Hettiesburg, Miss., was shut down three years ago and is currently on standby status.

HERCULES' FACILITIES

Reichhold declines comment on which of its plants would be potentially considered for inclusion in a joint venture, saying that it is too early to speculate on the matter. Reichhold has tall oil fractionating facilities in Bay Minette, Ala., and in Oakdale, La.

The tall oil fractionating capacity of all of the plants owned by Hercules totals 177,000 tons per year. This includes all of the plants in the US, as well as the fractionating facility in Burlington, Ontario, Canada.

For Reichhold, the total US capacity is 100,000 tons per year. None of the individual plants owned by either company has a capacity exceeding 85,000 tons per year. Plants which operate at capacities closer to 120,000 tons per year are considered "world class," according to industry sources.

CARNAUBA — The pricing on carnauba wax has remained steady and unchanged for several weeks now. The market has been described as typically quiet for the Summer months, although one dealer reports that he is doing better now than he was last year at this time.

Some traders are expecting higher prices from Brazil this year. Brazilian producers are said to be considering price changes, and may come to a decision this month, a source says. It is pointed out, however, that the Brazilians have been considering a change for some time, and have previously been un-

able to reach a final decision in the amount of time cited.

CORN OIL — The corn oil market received a jolt last week when a significant amount of buying took place. In what was described as an unusually large amount of trading on the domestic market, prices reached the 18c. per pound mark, sources say. The buying was said to be concentrated among three major consumers.

This activity was a surprise because the industry was expecting the corn oil market to follow the general downward trend seen in most of the rest of the oils market. Analysts were unsure if the activity was an indication of tight August supplies or part of an effort to firm up the market.

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PRICES TRENDLINES

WEEK ENDING AUGUST 8, 1986

CHANGES/UP

Can oil, Midwest, 1c. per lb.
Grasse, yellow maximum 10%, 1c. per lb.
Peanut oil, Southeast (restricted), 1c. per lb.

CHANGES/DOWN

Coconut oil, NY, 1c. per lb.
Cottonseed oil, 41% bulk, Memphis, \$25 per ton
Cottonseed oil, Valley, 1c. per lb.
Lard, loose, bulk, tanks, Chicago div., 1c. per lb.
Palm oil, NY, 2c. per lb.
Soybean, 44% bulk, Oscar, \$2.80 per ton
Soybean oil, Decatur, 1c. per lb.
Tallow, inedible, fancy, tanks, div. NY, 1c. per lb.

OILS, FATS INDEX

The Oils, Fats & Wax Index reflects the prices of 11 representative materials in this sector and the quantity of each produced in 1985.

Aug. 6, 1986	79.16
Aug. 1, 1986	63.30
July 11, 1986	63.56
Aug. 7, 1985	66.46

Chemical Prices Start on Page 32

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Chemical Finance

Wickes Company Pursuing Owens-Corning

Wickes Companies, a Santa Monica, Calif.-based diversified company, has made an unsolicited offer to purchase Owens-Corning Fiberglas Corporation for \$70 per share or about \$2.1 billion. Owens-Corning said that it would review the offer but indicated a negative response by saying that a broad restructuring would be among numerous alternatives to be considered. Restructuring is a critical and almost always successful method of defense, if carried far enough.

Agra Acquires Biological Consultants Inc.

Agra Industries, Ltd., Toronto, Canada, has acquired Biological Consultants Inc., of Birmingham, Ala., a consultant in the application of biological organisms to treat municipal, agricultural, industrial and toxic wastes. H.W. Norcross Jr. will continue as president of the company.

Int'l Technology Goes on Pacific Exchange

International Technology Company, of Torrance, Calif., has been listed on the Pacific Stock Exchange in San Francisco under the symbol "ITX." The company provides services for the assessment, mitigation and decontamination of situations involving hazardous substances. Revenues in the fiscal year ended March 31, 1986 were \$20 million, up 34 percent from the previous year.

Rollins Acquires Environmental Control Technology

Rollins Environmental Services Inc., Wilmington, Del., has acquired the business and certain assets of Environmental Control Technology Corporation, Ann Arbor, Mich., for 20,161 shares of Rollins common stock. The acquired company will provide analytical services for Rollins' three hazardous waste incineration facilities.

Waste Management May Offer Equity in Two Units

Waste Management Incorporated, the largest chemical waste hauler, is weighing a public offering of up to 20 percent of the equity in its chemical and nuclear waste businesses. The Oak Brook, Ill.-based company said that stockholders may realize greater values if these businesses are conducted in a separate publicly owned entity.

Reichhold's Ester Unit Going to Denka

Reichhold Chemicals Inc., White Plains, N.Y., has signed a letter of intent to sell its US specialty ester business to Denka Chemical Corporation, of Houston, Tex., in a cash transaction. Price was not disclosed. The transaction is expected to be completed within 90 days.

The agreement includes a manufacturing plant in Carteret, N.J.; the "Staflex" and "Barca" tradenames, along with licenses and technology. The product line comprises phthalates and adipates and other plasticizers, which Reichhold itself will continue to market through subsidiaries in Switzerland and Austria.

Greenwell Reinstates BOC, Brent Ratings

Greenwell Montagu Research Company in the UK has reinstated its "buy" recommendation on British Oxygen Company following a long period of weakness in the shares, and is again recommending purchase of the shares of Brent Chemicals Ltd., now that the price has drifted to a level below its intrinsic value. Greenwell is rating shares of Coaltite PLC as a "hold" and Coates Brothers is calling a "speculative buy." Imperial Chemical Industries PLC also is recommended.

SDS Biotech Completes TechAmerica Offer

SDS Biotech Corporation, a wholly-owned subsidiary of Fermont AB, of Stockholm, Sweden, has successfully completed its tender offer for 4.35 million shares or approximately 51 percent of the 8.5 million outstanding shares of TechAmerica Group Inc., at \$1 per share. Some 5,887,345 shares were tendered. SDS Biotech, based in Pollocksville, Ohio, is a manufacturer of agricultural chemicals and various animal health products.

Uniroyal, Goodrich Merge Tire Lines

B.F. Goodrich Company and Uniroyal Inc. have completed the merger of their tire businesses with the formation of Uniroyal Goodrich Tire Company, based in Akron, Ohio, with annual sales of about \$2 billion.

Hutton Likes Outlook for Hercules Incorporated

John P. Henry, chemical analyst at E.F. Hutton & Co., is rating the shares of Hercules Incorporated for "aggressive purchase" by short-term investors and "accumulate" for long-term investors. Hutton expects Hercules to earn \$3.75 per share this year and \$4.10 in 1987, up from \$2.40 per share last year. Hercules' strong prospects are enhanced by an upcoming joint venture for water soluble products with Hankel AG, of West Germany.

Oppenheimer Likes Koppers and Chemed Stocks

Koppers Company should earn \$2 per share this year and \$3 next year, following a rise of \$3.75 per share to 1985, according to a report from Oppenheimer & Co. Oppenheimer chemical analyst, Charles J. Rose, is keeping Koppers on his special research recommended list, and is also recommending the shares of Chemed Corporation. Chemed should earn \$2.30 this year and \$2.75 next year, versus \$2.21 per share in 1985. Rose has reduced his forecast for Nalco Company to \$1.80 per share this year, versus \$1.75 per share next year, versus \$1.87 in 1985.

Dow Chemical to Boost Share in Magma Power

Magma Power Company, Los Angeles-based geothermal energy developer, Dow Chemical Company has declared its intention to take a 25 percent interest in stock about \$400 million in accrued contractual fees due to Dow. When this transaction will enlarge Dow's holdings in Magma Power to almost 30 percent. Dow will exercise additional options it holds in the future, the stake could rise to 35 percent. Before the latest action, Dow's Magma Power interest totalled 25 percent.

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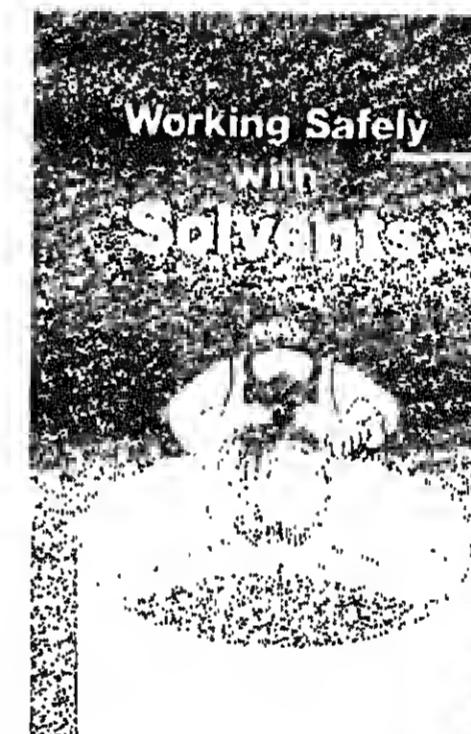
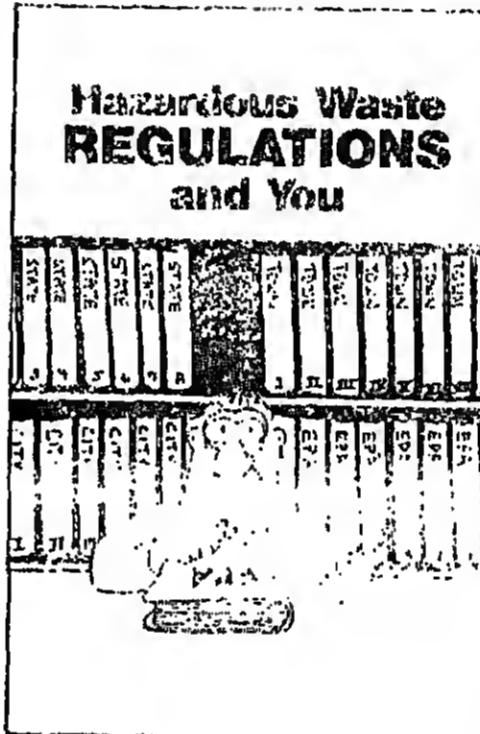
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CHEMICAL MARKETING REPORTER

ALIPHATIC ORGANICS

VAM Pricing Could Firm Up As a Result of OPEC Move

Producers of vinyl acetate monomer say prices for the material have slipped somewhat since January 1, but at least one maker looks to the possible cut in OPEC oil production as a sign of a better pricing climate to come.

Last week, producers offered several perspectives on where pricing currently stands in the industry. Two makers said that 28 cents to 30 cents per pound, delivered, is roughly what an average, medium-sized account is currently paying. Another producer maintains that most material is moving at 25 cents to 27 cents per pound.

Producers were unanimous, however, in questioning the validity of a 21-cent price, f.o.b. Texas that has recently been reported. One maker says that price, if available, would only be quoted to the very largest accounts, perhaps those taking in excess of 50 million pounds, and is not representative of the market.

Another maker emphasizes that the 21-cent price is f.o.b. rather than delivered, and customers paying this price would probably provide their own transportation.

PRICES HAVE DECLINED

In any event, prices have come down since January, by 1½ cents, according to one supplier, and by as much as 3 cents according to another.

Not surprisingly, the plunge in crude oil prices is at the heart of price weakness in VAM, according to producers. "I'm sure that supply and demand play a role," says one. "but the major reason is hydrocarbons."

He tells the by now familiar story of chemical makers who must contend with customer reaction pricing at the gas pump and the resultant pressure on the prices of all crude derivatives.

Apart from the crude oil situation and a VAM overcapacity, it's asserted that one producer may be contributing to price weakness by concentrating more on moving captive raw materials output than on obtaining acceptable prices for finished VAM production. The assertion is denied.

Softening methanol prices also play a role, according to a marketer. "Certainly methanol has taken a dive," he asserts. At the beginning of the year, methanol was reported selling at about 38 cents per pound (CMR, 2/3/88, pg. 17). Methanol was reported selling for approximately 30 cents per pound in July.

Overcapacity is an issue of some dispute among domestic makers. One supplier calls VAM "a commodity with tremendous world-

wide oversupply," and continues that "there is more than adequate supply in the US because there has been a big export market." He asserts that the export market can be "as much as 600 million pounds," and likens this market to "the output of one large plant."

That creates significant if exports decline and exporters are left looking for a place to put their product. The producer says the export market is currently seeing a price decline similar to that in the US market, and he suggests that "currently, everyone is concentrating on the US market."

"Some people who typically export VAM are trying to move product in the US," says a competitor, but he discounts the overall effect.

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

None

CHANGES/DOWN

None

ALIPHATICS INDEX

The Aliphatic Organics index reflects the prices of 20 representative materials in this sector and the quantity of each produced in 1985.

Aug. 8, 1986	222.80
July 31, 1986	222.80
July 11, 1986	222.80
Aug. 8, 1985	205.80

Chemical Prices Start on Page 32

fact of this trend. "We have seen some relief," he continues, "but whatever problems that will cause have already been seen."

Another supplier says that excess VAM capacity is not really the central issue right now. Rather he says, the limiting factor in the market is acetic acid capacity.

"There has been overcapacity for VAM for the last few years," he acknowledges, but he also points out that "acetic acid used to make VAM is running full out industry-wide." He asserts that "all VAM producers that produce acetic acid are running their acid capacity as hard as they can."

Thus, he concludes that "people aren't cutting VAM pricing to use more capacity."

A competitor feels that a strengthening may be close at hand for VAM, based on news that OPEC will finally take action to shore up sagging oil markets. "Fundamentally it's the crude oil situation that is responsible for all

ALIPHATICS

current psychology," he says.

He suggests that a change in the current weak oil market, which could be produced by an OPEC agreement to cut production, could reverse that psychology.

A potential result could be firming in all derivatives markets, including VAM. "I think the OPEC settlement, at least on a temporary basis, plus the acetic production picture, could lead to a firming." In any event, he says that price decreases have halted for the moment.

The VAM industry is basically mature, producers say. Domestic demand totalled 2.1 billion pounds in 1985 and is projected to grow to about 2.2 billion pounds during 1986. Producers say they expect to see demand growth of between 1 and 2 percent per year over the next three to five years.

GLYCERINE — Production of crude glycerine, including synthetic, totalled 23.1 million pounds in June, according to Department of Commerce. That represents a 1.7-million-pound decline from the production level seen in June of 1985, and a 5.8 million pound decline from May 1988.

Producers' stocks of crude and refined glycerine stood at 40 million pounds at the end of June, Commerce says. Stocks at the end of June were up 2.2 million pounds from end-of-May levels, and up 15.4 million pounds from levels seen in June of 1985.

Glycerine imports amounted to 2.8 million pounds in June, compared to 4.1 million pounds during the previous month, and 5.3 million pounds in June of 1985.

As of the end of June, cumulative imports stand at 28.9 million pounds, compared to 18.8 million pounds during the same period in 1985.

At 800,000 pounds, exports in June were unchanged from the level of the previous month, but were down sharply from the June 1985 total of 3.8 million pounds. Cumulative exports, through June, stand at 6.8 million pounds, just over half of last year's total for the same period.

Total domestic disappearance of glycerine was 22.9 million pounds, down from the May total of 28.3 million pounds, but above the June 1985 figure of 21.7 million pounds. Year-to-date domestic disappearance amounts to 174.5 million pounds as of June.

Celanese Set to Sell Methanol to California

Celaneo Chemical Company has signed "a letter of understanding" with Applied Cogenation to sell fuel methanol to Applied Cogenation, which in turn will resell the methanol to industrial and transportation consumers in Southern California.

Applied Cogenation says it will focus its

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Shell Chemical Company

AROMATICS

Continued from Page 13

serious than that would indicate, since Union is said not to have attempted to obtain supplies from other producers.

Chevron Chemical, which said on January 1 that it was leaving the business, says it has "seen a little more healthy environment" this year with Du Pont's shutdown and the elimination of half the industry's 4¢ per gallon price discount.

Consequently, the company's 36-million-gallon-per-year Port Arthur, Tex., plant, which had been running only "off and on" for a couple of months, we were obliged to continue supplying," has recently been running closer to capacity.

With the 5¢ per gallon benzene contract decrease, cyclohexane pricing falls 4.125¢ per gallon in accordance with the industry-wide pricing formula. The new prices range from Phillips Chemical Company's 85.40¢-per-gallon price to Texaco Chemical Company's 84.40¢-per-gallon price.

DMT — Although feedstock paraxylene prices have held steady, dimethyl terephthal-

ate pricing has dropped 1¢ per pound in the past three months, to 23 1/4¢ per pound from 24 1/4¢ per pound.

Producers say the lower price is a result of reduced energy costs and weak demand from the polyester fiber industry, which accounts for about 75 percent of DMT consumption. While a negative growth rate is expected this year for shipments to the polyester fiber market, producers are optimistic about demand from other sectors.

The PET container market "is booming these days," remarks one producer, and another projects a growth rate of 10 to 15 percent this year. Demand from film, engineering, and specialty resin markets is said to be growing modestly.

"The fiber area is much more mature" than those others, comments one producer. Since most material for fiber use is supplied internally, he says, the healthy growth rate in non-fiber DMT demand has led to a noticeable increase in the size of the merchant market.

Eastman Chemical, considered a "small player" in the merchant market by other producers prior to its withdrawal from contractual business in the first quarter, says that it intends to supply the spot market if it

has material available, but that internal requirements so far have foreclosed the excusing of that option.

NONYLPHENOL — Two producers who raised off-list pricing in early July by 1¢ per pound, say the move was unsuccessful. When the prices were increased, it was said they were responding to rising phenol costs.

However, producers say that phenol pricing, after rising briefly, fell back to June levels. This is attributed to weakness in the benzene market during July and competitive pressures within the phenol industry.

Demand for nonylphenol, which is used in surfactants, lube oil additives, emulsifiers and antioxidants, is described as steady.

THIODIPHENOL — Crown Zellerbach Corporation says that earlier this year it resumed production at its 2-million-pound-per-year Camas, Wash., facility. When the plant went off stream last year, it was said that the move was permanent.

"Our chemical products division felt that the plant did not fit strategically" into company plans at the time, says a spokesman. Since there has been no other producer of thiophenol active this decade, customers vigorously built inventories prior to the shut-

down, the company source says. Customers eventually were successful in persuading Crown Zellerbach to start up again. The current price of \$3.35 per pound for shipments over 350 pounds is said to be slightly above the 1985 level.

The main use for thiophenol is reportedly as a larvicide intermediate. The company says that other uses are in dye manufacturing, wood preservation, and that potential end markets being looked at include adhesives, fire retardant plastics, and thermoplastic resins.

Industrial Biocides

Continued from Page 4

they develop responses to "data-call-in notices" for more than 700 biocidal chemicals registered in California. The California Department of Food and Agriculture issued the notices last January, in accordance with the state's Birth Defects Prevention Act of 1984.

The notices require registrants to submit data on certain toxic, oncogenic and reproductive effects of the registered pesticides. Companies that do not have the data must initiate studies and submit reports by specified dates. CMA estimates that costs for developing the required data could be \$1.5 million per chemical.

Currently, the panel is also focusing its efforts on reauthorization of the Federal Insecticide, Fungicide, and Rodenticide Act, providing input in the development of EPA's upcoming anti-microbial testing requirements, and preparing to address upper-state and Federico data requirements for "certain" substances used in the manufacture of pesticides.

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DRUGS & FINE CHEMICALS

Guar Gum Supplies Plunge; Oil Services Industry Drops

As predicted, guar gum supplies have dwindled this year. Spokesmen agree that catastrophic conditions were prevented only by a diminishing requirement within the depressed oil services industry.

Last Fall's guar crops in India and Pakistan, the world's leading sources, were poor because of unfavorable weather. Guar import statistics for 1986 reflect this. Through May, 29.3 million pounds of guar had entered the US, about 45 percent less than the 53.7 pounds which came here through May 1985.

The US imports almost all of its guar requirement. While it is common for companies to build their inventories, most spokesmen agree that virtually all 1986 imports are being sold immediately.

In a typical year, claim spokesmen, present supplies would fall far short of demand. However, the oil services industry, which uses a half the guar sold in the US, is buying on a hand-to-mouth basis because of declining activity and plunging oil prices. According to Hughes Tool Company, 721 rigs were active last week. Although the number of active rigs has slightly risen in each of the last three weeks, the total is far below the 1,895 active rigs at the end of December. Moreover, the active rig total only began to rise after reaching an all-time low of 663 on July 14.

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

None

CHANGES/DOWN

None

DRUGS INDEX

The Drugs & Fine Chemicals index reflects the prices of 10 representative materials in this sector and the quantity of each produced in 1985.

Aug. 6, 1986	211.16
Aug. 1, 1986	211.16
July 11, 1986	211.16
Aug. 7, 1985	211.16

Chemical Prices Start on Page 32

man, indicates potential difficulties. It concludes that "If we get a second (consecutive) bad crop, it's going to be tough."

Other markets for guar, such as the textile, food and paper markets, are flat, say spokesmen. Currently, Federal measures are being considered to aid the faltering US textile industry, although these measures are opposed by the Reagan Administration. Even if measures are taken, says one spokesman, the guar industry probably wouldn't benefit much. "It could possibly help, but not to a major extent," he says.

Because of low demand overall, customers are obtaining material. However, notes one spokesman, the market is "sensitive, delicate. There's just enough to take care of all needs."

Now the industry awaits the next crop. Industry spokesman are hesitant to speculate as soon as the height of the season is in September and October, but some claim that preliminary signs are not encouraging. While it's the monsoon rains of September and October which help the crop flourish, rain is needed now to help the seeds germinate, and some spokesmen indicate that these rains are late. They should be coming now, or have even slightly passed." Another spokesman sus-

pects that the next crop will turn out to be good, prices should soften more.

Current US consumption of guar gum is estimated between 100 million and 120 million pounds. Two spokesmen speculate that about 80 percent of the raw material is processed overseas, with the rest processed in the US.

IVERMECTIN — Merck & Co.'s MSD

DRUG & FINE CHEMICAL EXPORTS: JUNE

BUREAU OF CENSUS FIGURES ON THE KEY DRUGS:

	JUNE QUANTITY	JUNE \$ VALUE	MAY QUANTITY	MAY \$ VALUE
Antibiotics:				
Amphotericin and salts, bulk	gms. 17,761	1,246,769	110,108	1,201,363
Erythromycin	gms. 48,986	5,125,361	48,233	7,237,974
Penicillin HSPF	bls. 3,767,057	4,866,212	114,231	3,676,854
Penicillin, G salts, bulk	bls. 1,670,053	626,447	1,623,961	413,821
Tetracycline	gms. 1,856	2,981,239	11,916	5,946,771
Aspirin	bls. 812,876	693,464	162,771	251,213
Caffeine and deriv.	bls. 76,444	120,513	18,000	25,000
Citro soln.	bls. 860,046	588,722	40,098	47,714
Opium alkaloids and deriv.	bls. 1,165	167,559	4,459	314,882
Hormones:				
Cortico-steroids, nspr.	bls. 4,866	6,762,756	6,400	6,669,205
Nonsteroid hormones	bls. 4,893	655,289	2,341	1,161,037
Prednisolone and ester salts	bls. 4,219	4,719,827	4,950	5,405,063
Steroid hormones and synthetic	bls. 18,426	8,432,708	21,841	4,895,490
Sulfonamides, bulk	bls. 100,059	1,407,876	56,329	845,004
Vitamins:				
Ascorbic Acid	bls. 110,609	863,695	105,792	427,386
Vitamin A and Pre-vitamin A, bulk	bls. 104,126	766,668	55,964	70,507
Vitamin B ₁	bls. 6,225	64,259	14,859	16,353
Vitamin E	bls. 3,088	34,578	1,228	5,124
Vitamin B ₂	bls. 74,243	762,185	81,345	120,892
D and Dl pantethenic acid	bls. 250	3,249	4,410	37,434
Neuro amine nucleotides	bls. 29,634	76,488	45,190	105,472
Thiamine, nspr.	bls. 160,943	816,532	120,442	576,821

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DRUGS & FINE CHEMS

Agvet division has received Food & Drug Administration approval for the first product to control both the internal and external parasites of swine, the company says.

"Ivomec," an ivermectin-based injection for swine, is the only product to control roundworms and lungworms by means of injection, while also controlling external parasites like lice and mange mites.

Previously, according to a Merck spokesman, animals had to be dipped or sprayed with two products, one for internal control and the other for external control. Merck already has patents for ivermectin-based injections for cattle and horses in the US, and also has approval overseas for treating sheep and external parasites of swine.

FDA's approval was given July 22, and Merck's spokesman says the injection is now beginning to be marketed. The product's price will average 80¢ per cc, which Merck's spokesman says is less than the cost of using two different products to do the same thing. He adds that injections allow for precise doses based on the animal's weight, and also subject the animals to less stress than would be by being sprayed and/or dipped.

PHENYLPROPANOLAMINE — The American Medical Association recently adopted a report recommending a delay in formulating guidelines for the use of PPA in diet preparations. AMA says this will be its policy until additional studies requested by the Food & Drug Administration are completed. AMA's report says that when the studies are completed, the Tentative Final Monograph (TFM) will be published in the Federal Register and the AMA can develop guidelines then.

FDA's decision regarding PPA, due a few months ago, is still pending. A spokesman says no target date has been set.

Meanwhile, price is said to be stable, with lists in the high \$20-per-kilogram region. Actual selling prices are said to be lower, depending on the quality of the product.

SODIUM ALGINATE — There continues to be an oversupply of sodium alginate.

Most of the US requirement is supplied by Merck & Company, the only domestic source. However, much of the product is imported, and the rate of imports is increasing.

Through June, 2.5 million pounds of sodium alginate have come to the US, compared to 2.18 million pounds for the comparable period in 1985. Leading exporters to the US are England, Canada, Norway and France.

Demand is called steady. Prices range from \$8 to \$6.75 per pound for NF grade, \$8 to \$5 per pound for FCC grade and \$1.85 to \$3.50 per pound for technical grade.

Firms to Fight US Textile Policy

The House voted to back President Reagan's trade policies last week, sustaining his veto of a bill that would protect the textile industry from foreign imports and require the administration to seek limitations on worldwide copper production.

The vote was 276-149, eight votes short of the two-thirds majority needed to override the veto. President Reagan has vetoed 47 measures and only five have been overridden by both the House and Senate.

The outcome signals the end for the controversial bill that the domestic textile industry said was needed to save it from surging import levels. The administration said the legislation would trigger retaliation by America's trading partners.

John N. Gregg, chairman of Avtex Fibers and leader of an industrial coalition that supported the bill, said fiber producers will continue to fight imports.

"America's fiber, textile, and apparel industry and its two million workers have lost the battle, but not the war, against unfair trade. As long as there's a US Congress empowered to stop the flood of unfair imports, we'll fight to gain its support," said Mr. Gregg.

The bill would have rolled back textile/apparel imports from the three largest importers — Taiwan, Hong Kong and South Korea — and frozen imports from nine other nations, most of them in the Pacific Rim.

It also would have directed the President to negotiate voluntary production restraint agreements with the major foreign copper producers in order to limit worldwide output over the next five years. Restraint agreements with Chile, Zambia, Zaire, Peru and Canada likely would have required these countries to reduce their current production by 6-7 percent.

The bill was passed overwhelmingly last year — 255-161 in the House; 60-39 in the Senate — but President Reagan vetoed it in December saying it was protectionist, would invite trade retaliation and would raise consumer prices.

"This was a bad bill last year and it's a bad bill now," said Rep. John Miller, R-Wash.

"It's bad for America's consumers... It's bad for America's workers... And it's bad for America's friends in the Far and Middle East."

Rap. Sam Gibbons, D-Fla., said the textile industry was the "most highly protected" in the US and maintained the industry is healthy.

White house officials and congressional supporters said recent textile-import pacts with Taiwan, South Korea and Hong Kong, along with a recently signed multilateral fiber agreement, showed the administration was heeding industry's concerns.

But supporters of the override, including many Southern Republicans, said the surge in imports over recent years had cost thousands of jobs in the textile industry and was evidence of a flawed trade policy. They said the new agreements would not help the industry.

ChemClear Wins \$1.3MM Contracts

ChemClear, Inc., Wayne, Pa., says it has received more than \$1.3 million in waste treatment contracts in the first seven months of its diversification into field service operations.

The company, which operated four waste treatment facilities in the Northeast and Midwest, expanded its field activities in January to service industries requiring mobile crews for commercial waste cleanup of oil/goo, contaminated tanks and drum storage areas.

Carl Cording, ChemClear's president, says the expanded field service operation has grown continuously since its inception, with July accounting for almost one-third of sales since the beginning of the year. "July has been a breakthrough month for this division," he says. "It is impossible to predict the future impact field service operations will have on our total revenues, but I see it as a significant factor in 1986 and beyond," he adds.

Superfund Tax Seen Unfair

Continued from Page 5

aware," Mr. DiBone said in a letter to the secretary.

"Given your opposition to broad-based taxes, the effect of your letter is to leave crude oil feedstock taxes as the only source of funding," the API executive wrote.

"There can be little doubt that many in Congress will use your letter to claim the administration supports increased feedstock and crude oil taxes as the only viable option," Mr. DiBone added.

API and Chemical Manufacturers Association have jointly recommended that general revenues be used to finance the bulk of hazardous waste site cleanup. Because Environmental Protection Agency has identified more than 8,000 potentially responsible dumpers from nearly every industry, the trade groups say the only appropriate alternative to general revenues is some other form of broad-based tax.

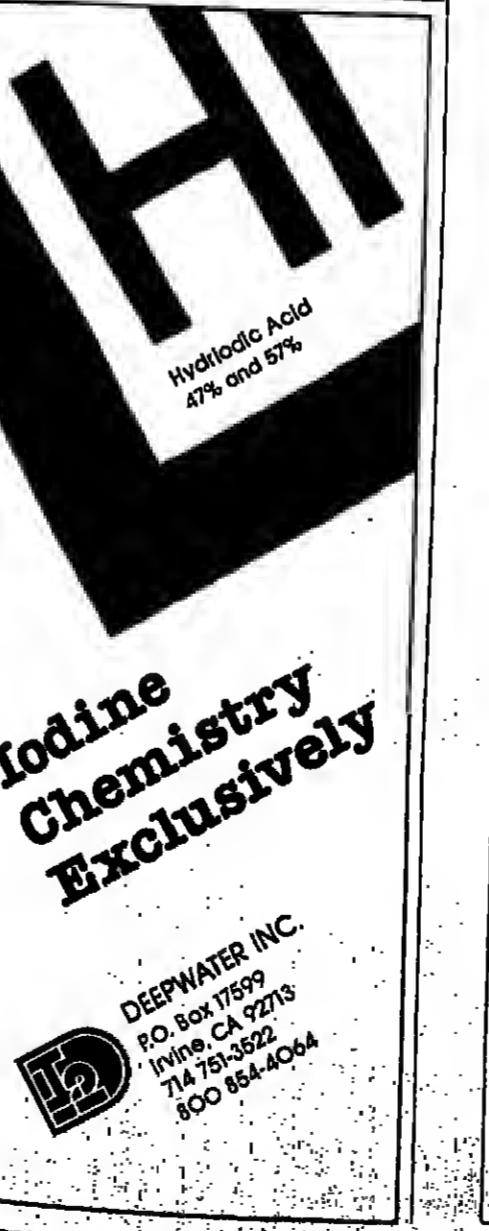
Although the tax issue is the only remaining unresolved matter in the nearly two-year superfund reauthorization debate, Capitol Hill observers say quick action by the tax conferees is unlikely. With Sen. Packwood and House Ways and Means Committee Chairman Daniel Rostenkowski (D-Ill.), tied up with tax reform, action on superfund will likely have to wait until Congress returns from its Summer recess, they say.

EPA administrator Lee M. Thomas says the agency needs funds by Sept. 1 or he will have to notify contractors that they would be laid off in 30 days. Already some contractors, which carry on much of the cleanup program's work, are laying off employees because of the low level of activity, he says.

Rep. John Dingell (D-Mich.), chairman of the superfund conference committee, says interim funding through appropriations, to be paid back later through superfund taxes, is "easier, not a probability."

Congress approved an emergency appropriation of \$150 million for superfund May 30, but EPA has nearly depleted those funds. Because Congress failed to complete the reauthorization before taxes to support the cleanup program expired Sept. 30, 1985, EPA has delayed work at more than 200 sites across the country.

Industry, environmentalists and EPA have



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Gas Price Fall Only Temporary

Although interstate pipelines reduced their overall cost of gas in 1985, much of the reduction resulted from temporary measures, a survey by the Interstate Natural Gas Association of America says.

The survey of INGAA member-companies shows that pipelines reduced their overall cost of gas last year by 25 cents per MMBTU, an 8 percent decline from 1984.

The report says this decrease in gas costs occurred following partial wellhead decontrol on January 1, 1985, when indefinite price escalators in gas contracts were putting substantial upward pressure on wellhead prices.

The INGAA report says domestic price effects accounted for 51 percent of the 1985 price decreases and imports accounted for 37 percent. Changes in natural gas purchase patterns accounted for an additional 12 percent of the total price decrease.

The report notes that a full one-third of the reported changes were due to temporary contract renegotiation and temporary release of gas, measures "averting the immediate effects of contract problems but not solving the problem."

INGAA's policy analysis department says in the report that "with imports accounting for a disproportionate share of the 1985 price reduction and one-third of the price changes resulting from stopgap measures, much of the market distortions and rigid gas purchase contracts remained at year-end 1985."

The report concludes that "although pipelines made some progress in controlling purchased gas costs, more contract renegotiation with producers is needed. The contract problems of 1985 were apparently only postponed, not eliminated."

Pesticide Reform

Continued from Page 7

stronger role for the states when contamination in a drinking well exceeds the guidance levels, and greater authority for EPA in the event that a state fails to act to ensure that

contamination is reduced or that people do not drink the tainted water.

The committee also adopted an amendment by Sen. Helms to restrict states' authority to set more stringent standards than the Federal government for certain pesticides residues on food.

The exemption, however, is limited to pesticides registered by EPA since April 1985. Sen. Helms explained that EPA has a complete data base on these chemicals, and their safety has already been proven.

The panel narrowly approved, 9-7, a motion by Sen. Richard Lugar, R-Ind., to delete provisions from the House bill requiring EPA to revoke food tolerances for pesticides whose use has been banned in the US. In effect, the tolerance revocation would prohibit the importation of food containing any residues of a banned pesticide.

Sen. Lugar argued that such a requirement would be viewed by exporters as "a non-tariff trade barrier" that would invite retaliation against some US-approved food chemicals.

Boots Enters

Continued from Page 3

operation. Mr. Theobald says the two sales forces make a "very good fit" because both call on the general practitioner.

Mr. Theobald says Flint provides Boots with the products, sales and profits to support the launching of new products and a sales force expansion. Flint's major product is a drug used to treat thyroid deficiency, called "Synthroid". It accounts for around 10 percent of Flint's total sales.

Boots currently has two products under development. One, a heart drug called "Flosequinan", is in phase II trials in Europe and the US. Boots hopes to have the drug on the US market by 1990.

Another drug in the Boots pipeline is an antidepressant, which is said to be faster acting than others currently on the market.

With a strong US presence, Boots is aiming to capture a larger slice of the American market, which accounts for 28 percent of prescription drug sales worldwide, compared to the UK, which accounts for just 3 percent.

The purchase agreement between Boots and Baxter Travenol is expected to be completed in September.

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CONTINUE TO PAGE 3

Waste Facility Sites Debated

Continued from Page 3

when it amended the Resource Conservation & Recovery Act two years ago.

Rep. Florio said the dispute between the Carlsbad unit and the citizen's group is evidence of the need for clear-cut EPA standards to determine where waste sites should be located.

"These regulations will go to the heart of environmental decisions now being made by states across the country," said the congressman. "It's absolutely essential that EPA issue these regulations that are aimed at ensuring that all hazardous and toxic waste facilities are not located where they will cause environmental damage."

Mr. Lower said Unison's technology for removing PCBs from electrical transformers "can achieve the highly desirable goal of eliminating the threat which 300 million pounds of PCBs may pose for the environment, now and for the future."

Through the company's technology, he said PCBs are removed from transformers and destroyed, and the transformers can continue to operate free of the risks associated with their current levels of PCBs. Risks associated with landfilling PCB transformers are avoided.

PCB REMOVAL PROCESS

In Unison's process, Mr. Lower said the original electrical fluid, typically containing 50 to 70 percent PCBs, is removed from the transformer on-site and sent directly to an EPA-permitted incinerator, where it is destroyed.

The transformer is then filled with TF-1, a proprietary interim fluid that leaches the PCBs out of the internal components of the transformer. Finally, the transformer is filled with a permanent dielectric fluid and reclassified to non-PCB status in accordance with EPA regulations.

Mr. Lower said Unison's recovery center, nearing completion in Henderson, has been designed to separate the remaining PCBs from the TF-1 fluid. These PCBs are also sent to EPA-permitted incinerators to be destroyed.

The Henderson site was chosen, he explained, because of its central geographic location between the majority of the transformers to be serviced and the three EPA-permitted incinerators.

"While the Henderson recovery center falls under TSCA (Toxic Substances Control Act) regulations, our review of RCRA indicates there are no controls imposed on RCRA-regulated storage or treatment facilities that would cause the Henderson facility

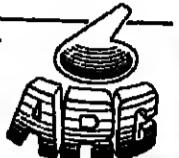
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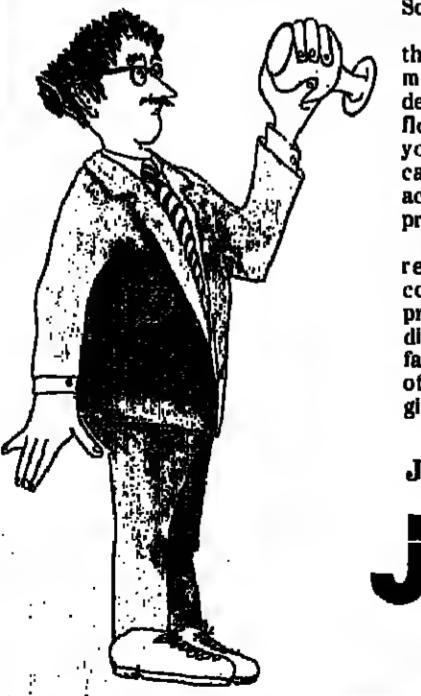
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CHIEF CHEMICAL MARKETING REPORTER August 11, 1986

Sunflower Oleic

Continued from Page 7

Intend to sell crude oil, oleic acid and oleic acid derivatives.

Mr. Grasser says the crude sunflower oil developed by SVO Enterprises offers a higher oleic acid concentration (in excess of 80 percent) than does premium tallow (73-75 percent oleic acid concentration). He says the oil will be marketed to firms willing to pay a premium for a higher concentration of oleic acid.

In addition to challenging other natural sources of oleic acid for the high end of the market, Mr. Grasser says that high oleic acid derivatives will eventually challenge the dominance of low-priced petrochemicals in the motor oil additives market.

In this market, petroleum-based products, such as ethylene oligomers, had displaced products based on natural oils, due to the sharp decline in crude oil prices.

Mr. Grasser says that high oleic acid derived chemicals will also be sold as lubricants in strip mills, hydraulic fluids, paper sizing and other industrial applications.

While Mr. Grasser concedes that sunflower oil derivatives still cannot compete with ethylene oligomers at present, he believes the pendulum will eventually swing the other way, with petroleum-based prod-

ucts rising in price, and high oleic acid derivatives made from sunflower falling in price.

Currently, Mr. Grasser says SVO Enterprises' high oleic crude sunflower oil is priced at 50 cents per pound. However, he anticipates the price will fall next year, since the company hopes to more than double the 40 million pound crude oil output earmarked for 1986. Eventually, he projects high oleic acid crude sunflower oil production will top 100 million pounds per year.

National Distillers Buys Texgas Corp.

National Distillers & Chemical Corporation last week announced the completion of its purchase of Texgas Corporation, the propane marketing subsidiary of Houston-based Union Texas Petroleum, for approximately \$185 million, \$150 million in cash and the remainder in notes payable in January, 1987.

NDCC chairman John Hoyt Stookey stated that, "The acquisition of Texgas will further strengthen NDCC's retail, industrial and wholesale propane marketing businesses operated by Suburban Propane Gas Corporation. With the addition of Texgas, Suburban Propane will market propane to approximately 1.1 million customers in 44 states."

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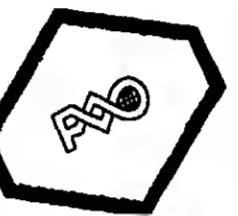
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PERFUMES & FLAVORINGS

Grapefruit Oil Supplies Tight; Industry Awaits the New Crop

Grapefruit oil supplies are extremely tight throughout the world, especially in the US, due to what sources call a skyrocketing demand. Because no new material will be available until Florida starts its crop in December or January, the situation is not expected to change this year.

Sources insist that the past season's crop was a good one, but just not strong enough to handle demand. "Crops weren't bad," says one broker, "demand soared.... Grapefruit oil is hard to get." Another agrees, saying that "demand is very unusual.... It's a dramatic thing."

Sources single out the beverage industry as the main reason for increased demand. Beverage demand very strong, says a broker. Another points out that consumption of beverages containing grapefruit oils is increasing.

A dealer says price for California material is about \$2.25 per pound, although he admits the market is volatile. The dealer comments that in March, prices were between \$1.25 and \$1.50 per pound, but now 75 to 80 percent of his sales are at the \$2.25 price.

Florida grapefruit oil is even scarcer than the California oil, and is priced at \$2.75 per pound. One reason that Florida material is even harder to find is that Florida's season ends earlier than California's.

Folded grapefruit oil prices are also on the rise because of lightness. Last week, 5-fold Florida grapefruit oil rose to \$18.50 per pound, as did 5-fold Israeli grapefruit oil. Also, 10-fold Israeli grapefruit oil costs \$33.50 per pound. Prices are for 25-pound purchases. A broker says that now, it is often difficult, or impossible, to accommodate new customers.

Price for redistilled nootkatone is stable at \$25 per pound.

Imports are behind last year's pace through June. Thus far, 103,000 pounds of grapefruit oil have entered the US, opposed to 111,000 pounds for the same period in 1985. The leading exporters to the US are Israel and Belize. Imports from Israel are down to 56,000 pounds from 88,000 pounds, while imports from Belize have risen to 45,000 pounds, from 36,000 pounds. Small amounts are also coming here from various countries in Western Europe.

One broker mentions that Mexico is starting to provide samples of grapefruit oil, and should be entering the US market next season.

LEMON OIL — The lemon oil market is described as sluggish, and price is soft as a result.

Italian lemon oil is especially weak, and sell by \$1 per pound, to \$13.50 per pound for a 22-pound purchase. A broker says supplies are plentiful, which is one of the reasons for the decrease.

Another reason, says one source, is that

consumption figures for some beverages are down. For example, he cites the "Slice" score in New York City recently. A person claimed to have tampered with the soft drink, causing the company to temporarily take it off the shelves. "Slice" is back on the shelves now, but the source says the incident created bad publicity for the drink.

Meanwhile, 5-fold lemon oil remains at \$48 per pound.

ORANGE OIL — Prices rose for the 20-fold orange oil, says a broker, as domestic sources face increased production costs.

Israeli 20-fold orange oil rose to \$22 per pound last week, while the 5-fold and 10-fold

PRICES TRENDLINES

WEEK ENDING AUG. 6, 1986

CHANGES/UP

Cassia, KA 3.50/4.00, 1-Sc. per lb.
Cassia, KA 3.00/3.80, 7-Sc. per lb.
Cassia, KB 2.25, 8c. per lb.
Cassia, KC 1.80, 4c. per lb.
Cumin Seed, Chinese, 3c. per lb.
Cumin Seed, Turkish, 4c. per lb.
Fennel Seed, Egypl. Foeniculum, 3c. per lb.
Fennel Seed, Italian, Extra Longy, 4c. per lb.
Fennel Seed, Turkish, Reheated, 3c. per lb.
Maca, Pedeng Siling, 25-50c. per lb.
Oregano, Greek 30, Mosch, 10c. per lb.
Oregano, Turkish 30, Mosch, 22-27c. per lb.
Poppy Seed, Turkish, 4c. per lb.
Poppy Seed, Australian, 4c. per lb.
Turmeric, Paravian, acc. qual., 1-Sc. per lb.

CHANGES/DOWN

None

COATINGS INDEX

The Coatings & Plastics Index reflects the prices of 13 representative materials in this sector and the quantity of each produced in 1985.

Aug. 8, 1986	308.4
Aug. 1, 1986	306.4
July 11, 1986	306.4
Aug. 7, 1985	306.4

Chemical Prices Start on Page 32

PERFUMES INDEX

The Perfumes & Flavorings Index reflects the prices of 11 representative materials in this sector and the quantity of each supplied in 1985.

Aug. 8, 1986	71.00
Aug. 1, 1986	71.00
July 11, 1986	71.00
Aug. 7, 1985	82.44

Chemical Prices Start on Page 32

ole were priced at \$4.75 and \$8.95 per pound, respectively. Florida's 5-fold orange oil retails at \$4.25 per pound.

Another broker comments that inexpensive low-fold material is coming in to the US from Brazil, which is why other low-fold orange oils are not firming. All prices are 25-pound quantities.

Another reason, says one source, is that

SEED & SPICE IMPORTS: APRIL

A SELECTION OF STATISTICS FROM THE BUREAU OF CENSUS

	APRIL	MARCH	1889 TO DATE	APR. '86
Cinnamon seed.....	82,199	82,890	2,785,140	718,307
Cloves.....	227,577	170,551	1,586,398	240,487
Coriander.....	103,585	270,824	588,705	178,183
Cumin seed.....	170,088	448,486	2,777,175	227,131
Fennel seed.....	822,264	860,681	2,077,022	403,511
Ginger root.....	326,149	940,023	3,116,086	18,612
Mustard seed, whole.....	366,467	550,843	1,886,810	188,604
Nutmeg, unground.....	253,581	640,371	2,431,858	354,157
Origanum, whole.....	7,811,870	7,181,170	30,879,394	8,856,079
Paprika.....	260,985	280,301	1,580,720	232,077
Pepper, black, unground.....	624,785	1,228,440	5,880,730	2,948,122
Pepper, red, capsaicin.....	211,969	2,128,648	2,732,207	4,620,967
Pepper, red, cayenne.....	8,312,138	8,780,831	27,888,710	4,820,972
Pepper, white, unground.....	142,945	1,457,791	305,892	1,788,072
Vanilla beans.....	241,217	510,038	2,288,239	67,401
White pepper.....	729,715	280,990	1,111,700	304,810
Sage unground.....	502,889	339,302	1,188,725	186,967
Turmeric.....	415,679	189,887	933,871	186,967
Vanilla beans.....	305,204	371,479	631,468	76,724

SR 5-1

Source: U.S. Bureau of the Census, International Trade Division, Washington, D.C.

August 11, 1986

COATINGS & PLASTICS

Acrylic Sheet Mart

Continued from Page 5

cations, have not been affected, sources say. USX says prices for its continuous-cast sheet run at around \$1 per square foot. Polycast, Inc. gives a price of \$1.34 per pound for cell-cast sheet.

Total US capacity for cell-cast, continuous-cast, and extruded acrylic sheet is said to be about 375 million pounds, roughly half of which represents cell-cast capacity. Some of this cell-cast capacity has been mothballed, and may be permanently shut down at some point in the future. Producers agree that at least 20 percent of the cell-cast capacity is excess.

In discussing demand, producers prefer to group all sheet types together, describing a total acrylic sheet market (including cell-cast, continuous-cast, and extruded acrylic sheet) of 315 million pounds, of which 280 million pounds is comprised of flat sheet and the remainder of prismatic formed sheet. 150 to 155 million pounds of this total is said to be composed of continuous and cell-cast sheet, with the remainder by continuously-processed and extruded sheet.

Total US capacity for molding and extrusion powder and pellet production is said to be about 250 million pounds, with 185 million pounds for molding powder and the balance for extrusion pellets.

TOTAL MARKET DEMAND

Total demand for the molding and extrusion pellets and powders is about 216 million pounds, of which 60 million pounds represents high-impact grades and 150 million pounds total merchant demand for molding powders. At least 35 million pounds of molding powders are produced for internal use by sheet producers in formulation of continuously-processed sheet.

Some sources fear that planned steel extensions will create an overcapacity problem in the molding/extrusion end of the market, with the possibility of long-term depressing effects on pricing. Since 1984 prices for these grades have remained stable.

Truckload prices for Continentol Polymers molding/extrusion compounds are 0.1 cents per pound for "CP-51"; \$1.02 for CP-923 and \$1.08 for CP-026 and \$1.24 for high-impact CP-1000. Similar prices for Rohm and Haas products are given, with 0.1 cents per pound for clear general-purpose grade (colored grades costing an additional 5 cents per pound) and up to \$1.27 per pound for truckload quantities of high-impact grade.

Overall growth has been increasing at GNP growth rate, roughly 4 percent from last year, a source relates.

Although impurities have effected larger producers as well, there is a feeling among major suppliers that the situation is stabilizing, and prices may soon be on the increase, due in part to the change in yen-to-dollar value ratio.

Overall growth has been increasing at GNP growth rate, roughly 4 percent from last year, a source relates.

Another potential high-growth market is that of blowing agent compounds. Although azodicarbonamide is FDA approved, it is dusty and difficult to work with. Sources report that both Nortech and Polyvel, Inc. are offering new (azodicarbonamide compounds containing 20 to 25 percent of the agent) for use in certain developed applications including

Continued on Page 30

per pound for the largest volume customers, substantial discount from the listed price of \$2.60 per pound. A spokesman for the firm complains that they have been hurt by Japanese, French and Korean impurities. (One Japanese firm which exports to the US gives a selling price range of \$1.40 to \$1.88 per pound, depending on grade and quality.)

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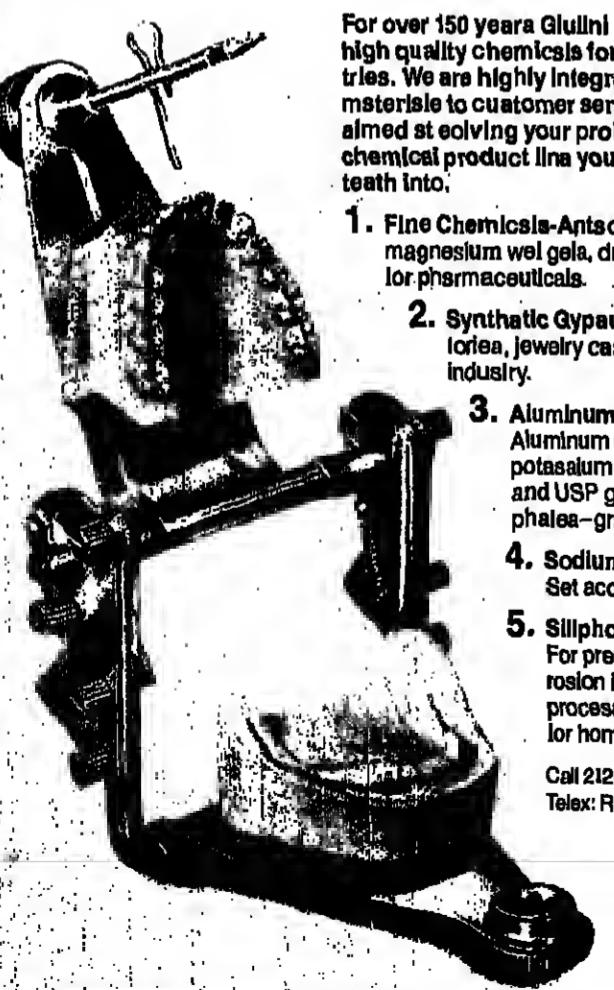
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HEAVY & AG CHEMICALS

Water Fluoridation Market Still Feeling the Supply Bind

The Center for Disease Control (CDC) said last week that water fluoridation has resumed in major cities such as Cincinnati and Philadelphia that lacked fluoridation chemicals early this spring.

All involved in the business, however, say that the tight supply situation continues, creating higher prices and some product allocation for municipalities and aluminum fluoride producers.

The main cause of tightness is generally acknowledged to be low operating rates for the phosphate fertilizer business. Hydrofluosilic acid (HFS), the primary fluoridation chemical, is recovered as a byproduct of phosphoric acid production.

In particular, sources cite the continued closure of Farmland Industries' Green Bay, WI, phosphate fertilizer plant as tightening HFS supplies. A Farmland spokesman says a start-up date for the plant has yet to be chosen. One source feels that the date may be over a year away.

Also cited are a two or three week maintenance turnaround at Freeport Chemical, and minor production problems at Conserv's plant.

Other major HFS producers include Gardiner, Texasgulf, W.R. Grace and La Roche Industries (formerly USS Agrichemicals). Not all phosphate producers recover HFS.

SF IN TIGHT SUPPLY

Also in short supply is sodium silicofluoride (SSF), which is produced from HFS and used in the dry fluoridation systems often found in smaller cities. Producers in this business are Gardiner, Kaiser Chemicals and Chemetco Industries. According to one source, two SSF producers have left the market over the past two years, victim of the poor margins that existed prior to the present situation.

CDC says that at present, all major cities are fluoridating. A spokesman acknowledges, however, that spot shortages, especially for smaller systems, have been reported. In addition, he feels that overall the fluoridation chemical market was tighter this summer than it was in 1982, when HFS supplies were also low.

One municipal water manager, whose city was not fluoridating four months ago, says full fluoridation has since resumed. He adds, however, that some delivery delays have been experienced.

Similarly, one buyer for an aluminum producer says material is available, but admits that his company is not able to purchase as much as it would like. The aluminum industry produces aluminum fluoride from HFS as part of its cryolite refining process.

Some fluoride chemical producers say they are currently selling on an allotment basis; one says he continues to get calls requesting spot sales that he must turn down.

Prices have risen as a result of the supply situation. Producers increased HFS prices in mid-summer to \$140 per ton for 100 percent acid, f.o.b. plant, from \$100 per ton. Similar

SSF increases, to \$18.75 per hundredweight, and \$400 per ton, soon followed.

Two weeks ago, Freeport Chemical hiked prices again, to \$190 per ton, effective September 1. Other producers say they are considering the market situation.

Producers claim that during healthy sea-

PRICES TRENDLINES

WEEK ENDING AUG. 8, 1986

CHANGES/UP

Sodium Ferrocyanide, 8c. per pound

CHANGES/DOWN

None

HEAVY & AG INDEX

The Heavy & Ag Chemicals Index reflects the prices of 18 representative materials in this sector and the quantity of each produced in 1985.

Aug. 8, 1986	113.89
Aug. 1, 1986	113.89
July 11, 1986	113.89
Aug. 7, 1985	113.89

Chemical Prices Start on Page 32

sons for phosphate fertilizers HFS supplies are much looser and prices are poor. When high and low price periods are averaged out, they say, overall returns are only moderate.

Prices to municipal users vary and are generally higher than producer prices, sources report, since most HFS and SSF goes through distributors first.

Prices to aluminum fluoride makers, however, are generally lower, reflecting long-term contract arrangements and the acknowledgement on the part of HFS producers that the aluminum industry is depressed.

CDC sponsored a meeting in June to discuss averting fluoride chemical shortages in the future. Among other things, CDC recommended the installation of storage equipment by consuming municipalities. Based on the observation of the effects of previous shortages, a three-month reserve is considered sufficient.

A CDC spokesman points out that such an investment for a smaller city might actually prove cost effective because it would allow for the reception of bulk and consequently lower priced shipments. For larger cities, storage facilities would not reduce costs significantly but would insure steady supplies.

It is generally acknowledged that storage equipment installation is not in the interest of suppliers. Municipal contracts tend to be awarded on a lowest bid basis. Consequently, there is little loyalty to suppliers on the part of municipalities, and no supplier incentive exists to make long-term investments.

Estimates of HFS demand vary. One source sees industry capacity of over 100,000 tons per year, on a 100 percent basis, but feels current production is closer to 75,000 tons.

FERTILIZER CHEMICAL OUTPUT: MAY

CENSUS BUREAU NUMBERS IN SHORT TONS ON KEY FERTILIZERS

	MAY	JUNE	JULY
Ammonia, syn., anhyd.	1,282,247	1,265,190	1,267,190
Ammonium nitrate.....	494,787	620,282	600,282
Ammonium nitrate/urea solution.....	198,179	228,505	222,505
Monocommonium phosphates.....	74,881	155,108	140,108
Other ammonium phosphates.....	62,490	62,032	60,032
Ammonium sulfate.....	191,832	185,761	185,761
Ammonium phosphate.....	881,861	850,337	850,337
Ammonium phosphate.....	831,008	850,337	850,337
Phosphate acid.....	765,703	821,010	821,010
Sulfur acid.....	3,112,124	3,211,407	3,233,205
Superphosphate, concentrated.....	1,000,000	1,000,000	1,000,000
Superphosphate, nominal & enriched.....	18,207	35,461	35,461
Superphosphate, other phosphate fert.	1,037,744	1,157,716	1,157,716
Urea.....	505,482	607,039	607,039

HEAVY CHEMICALS

per year, for all end uses, because of low fertilizer industry operation rates.

Another puts HFS demand by the water fluoridation business between 18,000 and 18,000 tons per year. SSF demand from both water treatment and industrial accounts is estimated between 18,000 and 20,000 tons annually.

One source says that while the gap left by Asarco's exit was for the most part quickly filled, the company's extensive warehouse network was ideal for filling requirements of smaller accounts, some of which are at present undersupplied.

SODIUM CHLORATE — KemaNord, Incorporated has announced new list prices for its sodium chlorate crystal to be shipped in bulk. The new prices reflect a division by region as follows: Northern Zone price is \$315 per ton, delivered, and the Southern Zone price is \$335 per ton, delivered.

The Northern Zone includes the states of Virginia, West Virginia, Kentucky, Missouri, and Kansas and North to the Canadian border. The Southern Zone is the territory south of that.

These prices are effective immediately for spot customers, and as terms permit for contract customers. The new list prices replace the old uniform list price of \$420 per ton f.o.b., freight equalized.

A limited amount of material from Metallurgies Hoboken-Oerpelt of Belgium is also on the market. Cominco of Canada is said to be aggressive lately, and a French producer is also said to be active.

In addition, one source says that Asarco sold from stockpile through May of this year, although Asarco now says it has withdrawn totally from the business.

Demand is called good by one supplier, based on the strength of the wood preservative industry, arsenic trioxide's major end use. Its use as a cotton defoliant and desiccant is not doing as well, he says.

The material is produced as a byproduct of copper mining, when the mining takes place in arsenic-rich ore. One observer predicts that more producers may be entering the market in years to come as foreign governments become more concerned with the proper disposal of mining byproducts. Brazil, Chile and Greece are cited as possible entrants. The Asarco material was 95 percent

pure. Sources say that 99 percent material is now more prevalent and preferred because it involves less handling and has less of a tendency to clog processing equipment.

Prices are thought by one source to be between 42c. and 45c. per pound f.o.b. warehouse. Another source agrees, but adds that this is for large quantities and subject to fluctuation based on supply/demand and currency exchange situations.

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PRIME PIGMENTS

CADMIUM PIGMENTS — Effective July 28, Harshaw-Filtrol, Inc. increased selling prices for its cadmium sulfide and mafnese sulfide pigments by an average of 2 percent, company spokesmen say.

Current selling prices for maximum quantities of representative pigments are: "Cadmium Lemon" (Yellow No. 30) at \$3.06 per pound, up 6 cents per pound from its previous price; "Cadmium Red" (Red No. 80) at \$5.40 per pound, up 10 cents from its previous price, and "Light Orange" (Orange No. 1405) up 20 cents per pound from its previous price, to \$10.00 per pound.

Although other producers have not yet announced price increases, they describe increased pressure to do so.

Producers who compound cadmium material exported by the UK and West Germany complain that the cost of imported material is up, due to environmental regulations abroad.

Sources explain that demand has stabilized since the early '80's, when demand was down due to what one producer describes as "unde end-user concern about heavy metal content." Use of cadmium pigments is said to be growing in production of specialty engineering polymers and alloys, (particularly ABS and its alloys), in requiring high-heat stability and light fastness.

In 1984, only 4 million pounds of cadmium pigments were produced; demand was between 5.5 million and 6 million pounds, with the remainder supplied by imports. One producer expects this year's to be 6 million pounds.

There is some overcapacity both domestic and worldwide; one source believes that total domestic capacity utilization rate is less than 60 percent of nameplate. This growth is due to increased demand in high-heat engineering resins.

CADMIUM SULFIDE — Asarcos Inc. has rescinded its May price increases of 10 cents per pound for cadmium sulfate, a company spokesman reports. The current list price is now \$5.00 per pound for largest-volume quantities (2000 lbs and over, f.o.b. Denver).

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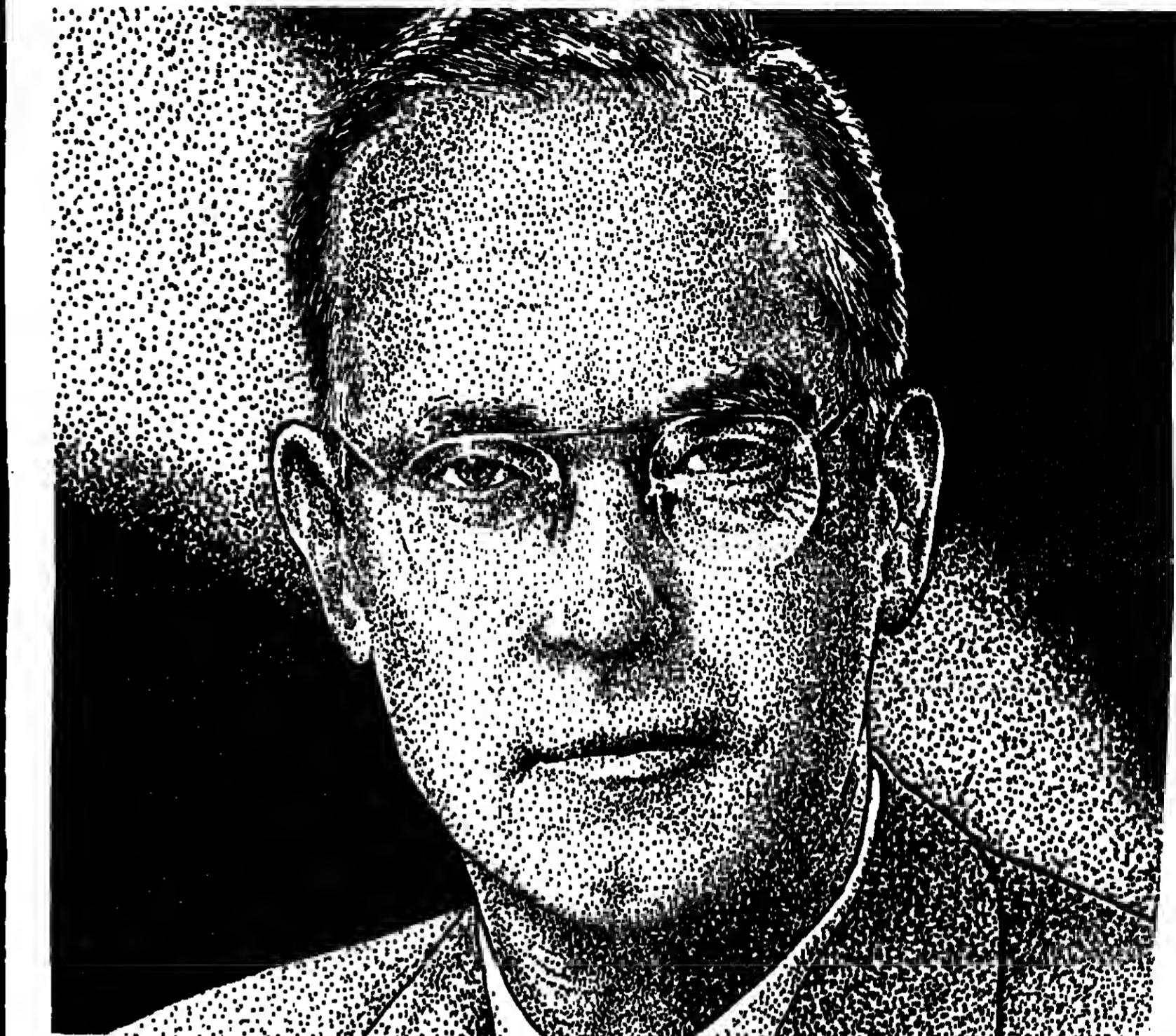
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CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All matters under this heading are fully covered by copyright.

An Index of weekly chemical market reports is on the back cover.

A

ABBREVIATIONS

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

THE TERMINOLOGY OF THE CHEMICAL MARKET PLACE					
C-7. dms.	lb.	1.95	-		
C-8. dms.	lb.	4.30	6.30		
C-10. dms.	lb.	4.30	5.35		
Alginate (see Sodium alginate.)					
Alkal blue, dry, flushed, 110-lb. dms., dwd.	lb.	3.72	3.83		
Alkal blue prices 10. higher W. of Rockies.					
Allepice Guatemalan / Honduran, bgs.	lb.	1.00	-		
Jamaican, bgs.	lb.	1.05	-		
Amyl alcohol, tanke, f.o.b., Bayport, Tex.	lb.	.90	-		
Amyl bromide, 500-kilo dms. 2,800 lbs. or more, works.	lb.	5.50	-		
Amyl caproate, 25-lb. cans.	lb.	3.90	4.50		
Amyl chloride, tanke, l.o.b. works.	lb.	.85	-		
Allyl isobutyrylate, bot.	lb.	5.40	6.90		
Almond oil, artif., bitter (see Benzaldehyde.)					
Almond oil, nat. bitter, NF 1.p.s.	bot.	3.50	9.80		
sweet.	lb.	1.24	1.50		
Aloe, Cape, cs.	lb.	2.00	-		
powd., cs.	lb.	225	275		
Curacao, kgs.	lb.	2.60	-		
powd., kgs.	lb.	3.00	-		
Alpha, NF, dms.	lb.	9.00	8.70		
Alum, ammonium, tech. gran., bgs. c.i.t., works	100 lb.	35.00	-		
FCC powd., fiber dms., works 100 lbs. i.t., works.	100 lb.	35.00	-		
Alum, potassium, tech. gran. bgs. c.i.t., works.	100 lb.	55.00	-		
FCC powd., fiber dms., works 100 lbs. i.t., works.	100 lb.	55.00	-		
a/alpha					
alid./slidied					
amorph./amorphous					
AMP/American melting point					
anhyd./anhydrous					
AOAC/Association of Official Agricultural Chemists					
a.p.s./available phosphoric acid					
approx./approximately					
artif./artificial					
ASTM/American Society for Testing & Materials					
b/beta					
Ba/Baums					
bbt./barrels					
b.p./beta-gamma					
bpt./beta					
blk./blacks					
bols./bottles					
b.p./boiling point					
b.p.l./bone phosphate of lime					
bs./boiling range					
bxs./boxes					
c/Centigrade					
cbys./carboys					
c.c./cubic centimeters					
CD/completely denatured					
c.i./coast insurance freight					
c.i./carload					
cns./cans					
coml./commercial					
cono./concentrated					
cp/chemically pure					
opa./caprolactone					
cryst./crysatalline					
cs./cases					
crt./cartons					
cyl./cylinders					
E/Sat					
e.p./end point					
squid./equalized					
exp./expressed					
ext./extracted					
f/Fahrenheit					
lb./pound					
i.a.s./free alongside					
i.o.l./free carload					
ferment./fermentation					
1.1.u./free fatty acid					
f.o./free from chlorine					
f.i.p.e./free from preservative acid					
fib./fiber					
f.o.b./free on board					
f.p./freezing point					
frt./freight					
g-/gamma					
gal./gallon					
g.p./general purpose					
gran./granular					
grd./ground					
i.b.p./initial boiling point					
imp./imported					
incl./included					
indust./industrial					
kgs./kgs					
l-lavo					
lb./pounds					
l.o.l./less carload					
l.t./less truckload					
liq./liquid					
m-/meta					
ma.p./mixed enolines					
point					
mech./microgram					
mfrs./manufacturers					
min./minimum					
mol./molten					
m.p./melting point					
redist./redistilled					
refd./refined					
refy./refinery					
resub./resubmitted					
ret./returnable					
SD/specifically denatured					
NF/National Formulary					
No./number					
Nom./nominal					
sec./secondary					
secs./seconds					
sp.g./specific gravity					
ship./shipment					
solt./solution					
std./standard					
syn./synthetic					
tanks/railroad tanks					
tech./technical					
terr./territory					
trd./traded					
ton/referred to short ton of 2,000 pounds					
TVA/temporary voluntary allowances					
tw./tank wagon					
U.S./United States Pharmacopeia					
vis./viscosity					
V.M.P./venital market					
w./winkers					
w/w./whalebone					
w/w./water-white					
NOTE: A unit-ton is 1 percent of 2,000 pounds of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the unit-ton price shown in Chemical Reporter gives the value of 2,000 pounds of the material.					

FCC powd. fiber dims., works. 100(lbs.) 55.00 -
GOMER GAX MARKETING CORPORATION
1000 N. WILMINGTON ST.
PHILADELPHIA 3, PENNSYLVANIA

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

			C
squid.....	lb.	1.28	1.85
tanke, same basis.....	lb.	1.37	1.43
tanlo grade, t.i., dms., some basis.....	lb.	1.40	-
tanlo, same basis.....	lb.	1.34	-
tanlo, grade, t.i., dms., asmo basis/lb.	lb.	1.32	-
tanlo, same basis's.....	lb.	1.29	-
azoy benzozate, dms.....	lb.	1.98	2.25
azoy chloride, tech, non-ret. dms., o.i., t.i., fr. equaid.....	lb.	.68	-
azoy, t.i.o.b.....	lb.	.54	-
azoy cinname, 25-lb. cns.....	lb.	8.50	9.95
Benzyl-N,N-dimethylamine, 1.1. dms, t.o.b. works.....	lb.	2.30	-
azoy formate dms.....	lb.	10.50	-
tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol). dms.....	lb.	15.50	-
azoy isoeugenol, dms.....	lb.	3.35	-
azoy propionate, dms.....	lb.	2.80	3.25
azoy isocrotonate, crns, bot's.....	lb.	2.95	3.25
azoydine acetone, crns, bot's.....	lb.	40.00	-
azoyl oil, nat., Nafan, t.o.b.kilb	lb.	5.50	-
azoydine oxynaphthalic acid (see <i>b</i> -Oxynaphthalic acid). in, cryst, 500 grms. or more....gm.	gm.	4.80	-
benzyl phenyl, 500 grms. or more....gm.	gm.	5.50	-
benzyl nitrate, purif. cryst., 100-lb. dms., fr. equaid.....	lb.	10.00	-
benzyl oxychloride, 100-lb. dms., works.....	lb.	17.20	-
benzyl subcarbonate, USP, medium powd., 225-lb. dms., works. lb.	lb.	15.31	16.60
benzyl subgalate, purif., 100-lb. dms., works.....	lb.	10.60	-
benzyl substitute NF, powd., 200-lb. dms., works.....	lb.	14.46	-
benzyl subisocrotonate, purif. powd., 50-100 lb. dms., works.....	lb.	17.00	-
benzyl trichloride, reagent. powd., 100-lb. dms., works.....	lb.	15.00	16.48
phenol-A, spoky grade, hoppar carv, thvd.....	lb.	.87	-
phenylcarbonate grade, same basis lb. to see, syn. Imp., bags.....	lb.	.71	-
phenylcarboxylic acid, reagent. bags, of, Braz., dms.....	lb.	.20	-
phenyl, dms.....	lb.	10.75	12.00
phenyl (red 48) dms., fr. alid., lb.	lb.	10.75	-
phenyl (red 50) dms., same basis.....	lb.	7.25	8.05
phenyl, steamed, dom, bags, o.i., t.o.b. Midwest plants.....	ton	6.50	7.80
phenyl, same basis, t.o.b. Phifacial phia.....	ton	180.00	190.00
phosphate, defluorinated oil lime (see Defluorinated phosphate).	ton	No Prices	
phosphate, precip. (see Calcium phosphate's tribasic).	ton		
phos. tech. anhyd, 99%, bags, o.i., works.....	ton	847.00	
but, o.i., works.....	ton	602.00	
Cadmium chloride, purif. cryst., 100-lb. dms., t.i., works.....	lb.		3.73
Cadmium, CP, red, dark shade, bbls., 100-lb. lots, fr. alid., E. of Rockies.....	lb.		11.33
light shade, bbls., same basis.....	lb.		9.18
medium shade, bbls., same basis,lb.	lb.		10.69
medium-light shade, bbls., same basis.....	lb.		10.26
Cadmium, CP yellow, all shades, bbls., 100-lb. lots, fr. alid., E. of Rockies.....	lb.		8.10
Cadmium fluoride, liq. conc., dms., t.i., works, fr. equaid.....	lb.		2.27
medium-light shade, bbls., same basis.....	lb.		3.22
Cadmium-mercury lithopone, maroon shade, bbls., fr. alid. E. of Rockies.....	lb.		4.80
Cadmium metal ingots or sticks, ton lots, ca. thvd.....	lb.		1.20
Cadmium nitrate, purif., lake 400-lb. dms., o.i.; t.i., f.o.b. ship. pt.b.	lb.		2.10
Cadmium-selenide-lithopone, orange, light shade, bbls., 400-lb. lots, fr. alid. E. of Rockies.....	lb.		8.97
deep shade, bbls., same basis.....	lb.		4.47
Cadmium-selenide lithopone, red, dark shade, bbls., same basis.....	lb.		6.77
light shade, bbls., same basis.....	lb.		6.27
medium-light shade, bbls., same basis.....	lb.		5.72
medium shade, bbls., same basis,lb.	lb.		6.37
maroon shade, bbls., same basis,lb.	lb.		7.47
Cadmium-selenide lithopone, yellow, all shades, bbls., same basis.....	lb.		2.97
Cadmium sulfate, 50-lb. dms., any quantity, f.o.b. ship. pt.lb.	lb.		4.05
Caffeine, dom, USP, syn. crypt. anhyd., powd., 100-lb. dms., o.i., t.i., fr. alid.....	lb.		4.80
Imp., crypt., anhyd., powd., dms., 10,000 lb. or more.....	lb.		4.70
Calamine, USP, dms.....	lb.		1.50
Calenius oil, dms.....	lb.		29.00
Calciferol (see Ergocalciferol).	lb.		88.00
Calcium acetate, purif., powd., dms., t.i., works.....	lb.		87

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

Calcium carbide, std., generator size, bulk, o.l., l.o.b., works... ton	402.00	-
Calcium carbonate, pulverized, 325- mesh, bgs., bulk, l.o.b. works... ton	34.50	-
sturite, 54% solids, same basis... ton	187.00	-
72% solids, same basis... ton	88.00	-
quickslime, gran., Ind., bulk, work- es... ton	67.00	-
Calcium carbonate, coated, bgs., o.l., works... lb.	.0742	.1350
Calcium carbonate, precip., bgs., o.l., ton	370.00	430.00
Calcium carbonate precip. medium, bgs., o.l., works... ton	95.00	140.00
precip. dense, bgs., o.l., surface treated, bgs., o.l., works... ton	185.00	-
ultraline, U.S.P., bgs., o.l., works... ton	180.00	170.00
Calcium chlorides, conc., reg. grade, 77- 80%, flake, bulk, c.i., works... ton	163.00	-
100-lb. bgs., o.l., same basis... ton	198.00	-
anhyd., 84-87%, flake or pellet, bulk, c.i., same basis... ton	217.00	-
90-lb. bgs., o.l., same basis... ton	279.00	-
brining grade, 80-lb. bags... ton	285.00	-
Calcium chloride, liq., 100 percent be- abs, i.c., t.i., barge... ton	99.78	-
45% same basis... ton	118.00	-
Calcium chloride, USP, gran., 226-lb. dma., t.i., fr. equal... lb.	.90	-
Calcium citrate, purif., 200-lb. dms., 10,000 lbs. or more, f.o.b. works... lb.	3.82	-
Calcium cyanamide, Indust., anhyd., dms., works... ton	400.00	450.00
Calcium gluconate, USP powd. t.i., lb.	1.90	-
Calcium hydride, lump, dms., 25- 1,000-lb. lots, works... lb.	10.50	18.25
Calcium hypochlorite, 100-lb. dms., truckloads ship.t. E. of Rock- ies... 100 lbs.	92.40	-
Calcium hypophosphite, dma., bulk, 500 kilos or more... kilo	13.75	14.50
Calcium iodate, FCC dms., f.o.b. works... lb.	5.50	-
Calcium iodide, 50-kilo dms., f.o.b. works... kilo	23.65	25.85
Calcium lactate, NF, powd., pentahy- drate, dms., 24,000 lbs. or more, f.o.b. works... lb.	2.00	-
NF, gran., trihydrate, same basis, fb. special gran., dried grade, same ba- sis... lb.	2.10	-
Calcium naphthenate, liq., 4% Ca, c.i., f.o.b. plant, E. of Rockies, lb.	2.80	-
d-Calcium pantothenate, U.S.P., 100- 500-kilo lots... kilo	.85	-
d-Calcium pantothenate, lead grade, f.o.b. fr. alld., 250-kilos or more... kilo	10.50	11.50
dl-Calcium pantothenate, calcium chlo- ride complex, lead grade, 150 grams per lb., f.o.b., fr. alld., 500 lbs. or more... lb.	8.00	8.60
Calcium phosphate, dibasic, lead grade, 18½% P, bulk, c.i., t.i., f.o.b. works... ton	2.75	-
Calcium phosphosphate, dibasic, dihydrate, USP, bgs., o.l., t.i., works, fr. equal... 100 lbs.	228.00	-
anhyd., USP, same basis... 100 lbs.	82.50	-
dentifice grade, same basis... 60 lbs.	71.75	-
Calomil, NF, mid powd., 100-lb. dms., l.o.b. works... lb.	49.90	-
Calomil phosphate, monobasic, monohydrate, lead grade, bgs., o.l., t.i., works, fr. equal... 100 lbs.	60.50	-
anhyd., food grade, same ba- sis... 100 lbs.	54.95	-
tribasic, NF precip., bgs., o.l., fr. equal... 100 lbs.	62.50	-
Calcium propionate, dms., 2,000 lbs. or more f.o.b. fr. alld... lb.	.50	.65
Calcium silicate, hydrated, bgs., c.i., works... lb.	.07	-
Calcium silicate, paint grade (see Wollastonite).		
Calomel, NF, mid powd., 100-lb. dms., l.o.b. works... lb.	6.50	-
Camphene chlorinated, 97-98% (see Toxaphene).		
Camphor, monobromated, dms., kgs... lb.	8.83	9.70
Camphor, syn., tech., 155-lb. dms., 5,000 lbs. or more... lb.	1.80	-
USP, powd., 165-lb. dms., 5,000 lb. lots or more... lb.	2.38	-
syn., reid., 1-oz. tablets, cme, 1,000- lb. lots or more... lb.	3.50	-
Camphor oil, yellow, 25-lb. dms... lb.	2.50	-
white, dms... lb.	1.50	-
spec. grav., 1.070, dms... lb.	2.00	2.25
Cananga oil, Indonesian, dms... kilo	17.00	-
Candelilla wax, crude, bgs... lb.	1.90	-
refd. pure, bgs... lb.	2.10	-
Caprylic acid, corn, pure, dms... lb.	.80	.85
tanks... lb.	.80	.85
Caproic aldehyde (aldehyde C-10) dms., one... lb.	3.95	5.35
Caprolactam monomer, flake, bgs., t.i., l.o.b. shipping point... lb.	.87	-
molten, tanks, same basis... lb.	.85	-
Capryl alcohol "soo" 92-98% tanks, l.o.b. works... lb.	.86	-
Caprylic acid, corn, pure tanks... lb.	.781	-
Capicum (see Pepper, red).		
Caputum oil (see Caputum oleoresin).		
Caputum oleoresin; NF, from dom., pepper, dms... lb.	11.00	-
NF, from African pepper, dms... 500,000 pungency... lb.	9.00	-
1,000,000 pungency... lb.	17.00	18.00
Caraway oil, Poland, dms... lb.	22.00	25.00
Caraway seed, Dutch, bgs... lb.	.50	.51
Egyptian, bgs... lb.	.53	-
Carbon black, furnace, fast extruding, (FBF), bulk, o.l., works... lb.	31.75	-
bgs., o.l., works... lb.	33.75	-
general purpose (GPF), bulk, o.l., works... lb.	31.25	-
bgs., o.l., works... lb.	33.25	-
high abrasion (HAF), high structure, bulk, o.l., works... lb.	33.00	-
bgs., o.l., works... lb.	.85	-

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

Chlorinated paraffin, Zone 2 prices are 1c. per lb. higher and Zone 3 prices are 2c. per lb. higher and U.L. drum prices are 5c. per lb. higher.

Chlorinated number 5, 10, 20 gags, lugs, l.b., l.b. 1.88 -

40 gags, bgs, l.b., l.b. 1.82 -

125 gags, bgs, l.b., l.b. 2.00 -

300 gags, bgs, l.b., l.b. 2.78 -

Chlorine, tetrachloro single units works, l.b., l.b. 1.85 -

195.00 200.00

Chlorosulfone acid, monomer, liquid, 55% bulk f.o.b. works, l.b. 58 -

2-Chloro-1-aminotoluene, tech., l.b., l.b. 1.88 -

o-Chloronaphthalene, liquid, dms, c.l., f.o.b. works, l.b. 1.83 -

lugs, same basis, l.b. 1.88 -

P-Chloronaphthalene, c.r., l.b., l.b. 2.00 -

o-Chlorobenzoic aldehyde, dms, l.b., l.b. 2.45 -

p-Chlorobenzaldehyde, dms, 2,000 lbs. or more, works, l.b. 3.84 3.85

o-Chlorobenzal acid, dms, 500-lb. boxes, l.b., l.b. 3.90 -

Chlorobenzene, tank, l.b., l.b. 1.88 2.25

Chlorobenzene, tank, f.o.b. works, l.b. 34% -

NF tanks, min. consumer, 4,000 lbs. div'd. 34% -

2-Chloro-4-nitromonooxime, paste, modify basis, dms, l.b., l.b. 8.08 -

power, same basis, l.b. 1.85 -

4-Chloro-2-nitro-4-oxime, paste, 1725 lbs. per year, chloromethyl basis, dms, l.b., l.b. 2.25 -

poxy, same basis, l.b. 2.70 -

o-Chlorophenoxy, n.m., c.l., f.r. equal. 2.00 2.40

p-Chlorophenoxy, n.m., o.l., f.r. equal. 1.25 1.70

Chloropicolin, 1,500-lb. cyle, l.b., l.b. 1.25 -

Chloroform, tank, f.r. equal. 1.25 -

p-Chlorofluoroc., tech., l.b., l.b. 1.81 -

Cholecalciferol, dry, 40,000,000 units per gram, kilograms, gms. 24.00 -

Choline bitartrate, crystal, 88%, 50-lb. bags, l.b., l.b. 1.25 -

Choline, l.m., l.b., Springfield, Ill., l.b. 6.80 -

Choline chloride, food grade, 70% aqueous, l.c., l.b., l.b. 1.81 -

80% dry supplement, l.b. 2.28 -

Choline chloride, 80% dry supplement, bulk hopper cars, l.b. 3.88 -

bags, 50,000 lbs. net, l.b. 4.40 -

Choline chloride, pharmaceutical, 50 lbs. net, l.b., l.b. 1.25 -

Choline chloride, 50-lb. bags, l.b., l.b. 1.25 -

Choline hydrochloride, 98%, 50-kilo lots, work, l.b. 5.00 -

Choline hydrochloride, 98%, 50-kilo lots, work, l.b. 6.00 -

Chromic green, CP extra light, bgs, div'd. E. of Rockies, l.b. 1.68 -

light, bgs, same basis, l.b. 1.70 -

medium, bgs, same basis, l.b. 1.72 -

extra dry, CP, same basis, l.b. 1.74 -

Chromic green, CP, bgs, div'd. E. of Rockies, l.b. 1.68 -

Chromic yellow, CP, bgs, div'd. E. of Rockies, l.b. 1.68 -

Chromic acid, 99.4%, fine dms, c.l., f.r. equal. 1.09 1.16

grd., same basis, l.b. 1.25 -

Chromic acid, 99.4%, 50-lb. bags, l

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

Percarbonate, dry clearing grade, distr., tanks, divd.	.28½	-
Indust., grade, consumers, tanks, divd.	.31	-
Perlaed, dms.	2.55	-
Permanent red 2B, (red 48), calcium soaps, dms., frt. alkd.	5.25	-
barium soaps, same basis	5.25	-
Perubalsam, f.o.b.	3.25	-
Petrolatum oil, Paraguay	5.75	6.25
Petroletum, USP, snow white, dms., c.l., refy	.375	-
tanks, refy	.310	-
USP, soft white, dms., c.l., refy.	.375	-
tanks, refy	.310	-
USP, yellow, dms., c.l., refy.	.370	-
Petrolatum, USP, Lillywhite, tanks, refy.	.305	-
USP, cream, dms., o.l., refy.	.365	-
tanks, refy	.30	-
USP, soft yellow, dms., o.l., refy.	.350	-
tanks, refy	.285	-
UBP, amber, dms., o.l., refy.	.345	-
tanks, refy	.280	-
Petroleum pitch (see Asphalt, petroleum).		
Petroleum asphalt, 80-82%, sulfonic cont., HMW, bulk, works	.48½	.49
MMW, same basis	.48	-
LMW, same basis	.48	.49½
Prices for 51% sulfonic content 2c per lb. lower on corre- sponding molecular wts.		
Phenacetin USP, powd., 200-lb. dms..		
1,000-lb. lots, divd.	2.20	-
100-lb. dms., 1,000-lb. lots, divd.	2.22	2.45
p-Phenetidine, dms., c.l., f.o.b.	2.00	-
Phenobarbital, UBP, dms., 500-kilo lots., f.o.b. works	19.80	-
Phenobarbital-sodium, NF, 500-kilo lots, f.o.b. works	27.00	-
Phenol, syn. tanks, Int. equid.	.25	.29
p-Phenoxybenzoic acid, 85% sol'n., dms., o.l., fob works	.64	-
tanks, same basis	.58	-
Phenothiazine, Indust. grade, 50-lb. bags, c.l., f.o.b. works	2.33	-
purif. grade, same basis	2.09	-
Phenyl acetate, dms., 100-lb. lots, works	1.04	-
Phenylic acid, pure cryst., 25-lb. cns.	4.50	-
dl-Phenylalanine, dms., 25-kilo lots.	84.00	-
1-Phenyl-3-carbethoxy pyrazolone-5, dms., 200-lb. lots, divd. E.	3.48	-
m-Phenylenediamine, cast, dms., c.l., f.o.b. works	2.07	-
o-Phenylenediamine, flaked, dms., f.l., f.o.b. works	3.25	-
p-Phenylenediamine, flaked, dms., f.o.b. works	4.00	-
Phenylephrine hydrochloride, USP 100-kilo lots or more	175.00	185.00
Phenylethyl acetate, dms.	3.35	-
2-Phenylethyl alcohol, NF, dms., o.l.	2.55	3.40
b-Phenylethylamine, dms., 30,000 lbs. or more, Int. alkd.	1.50	-
Phenylethylphenyl acetate, 25-lb. cns.	5.50	6.80
Phenylyglyconic acid (see Mandelic acid).		
Phenylyhydrazine, 99% min., dms.	3.50	-
1-Phenyl-3-methyl-5-pyrazolone, dms., 250-lb. lots, divd. E.	1.80	-
o-Phenylphenol, dms., f.l., works	1.35	2.00
p-Phenylphenol, bgs., f.l., 40,000 lbs. or more, works	1.85	-
Phenylpropanoylemine hydrochloride, 100-kilo dm.	24.00	28.00
Phenylsuccinate, purif. cryst., dms., E.	2.75	-
tech., cryal., E.	2.26	-
lakc, E.	2.36	-
Phloxine toner (red 80), dms., frt. alkd.	1.95	2.05
Phosgene, 1-ton ret. crys., 5 to 9-cu. quantities, works	.65	.67
Phosphate rock, Fla., land pebble, run of mine washed, 65-68% b.p.l., bulk o.l. mines	23.15	-
vessel, Tampa, same basis	28.00	-
Phosphoric acid, com'l. and tech. grades, 75% tanks, works	28.00	-
80% tanks, works	31.00	-
85% N.F. tanks, f.o.b. freight equivalent	33.50	-
Food grade prices \$2.00 above tech. grade.		
Phosphoric acid, agricultural grade, 52-54% s.p.a., tank a. works	3.10	-
super, min. 70% s.p.a., same basis	3.45	-
Phosphorus, white (yellow) solid dms., c.l., works, frt. equald.	1.00	-
tanks, works, f.o.b. works	.81	-
Phosphorus oxychloride, tanks, Int. equald.	.40	-
Phosphorus pentasulfide, powd., dms., o.l., works	100 lbs.	50.00
to to one sellers	100 lbs.	46.00
Phosphorus pentoxide, dms., f.l., works	.82	-
Phosphorus sesquioxide, dms., cns., c.l., works	.38	-
Phosphorus trichloride, dms., c.l., works	.40	-
tanks, works	.35	-
Phthalic anhydride, flake, c.l., f.l., dms., frt. equald.	.30	335
molten, tanks, same basis	.27	305
Phthalocyanine blue toner, red shade, bbls., frt. alkd. E. of Rockies	.810	9.50
green shade, same basis	.840	8.50
resinated, bbls., same basis	.820	8.75
Prices 1-1½c. per lb. higher on the West Coast		
Phthalimide, flake, works	.85	

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1988

thiocyanine blue toner, water dispersible, bbs., same basis, lb.	7.05	7.75	Potassium bifluoride tech., dms., t.i. works, frt. aquad. lb. 45 49	Rice bran oil, refined dms. t.i. lb. 1.26	Sodium bicarbonate, USP, powd., reg. grade, bgs., c.i., LL, works, frt. aquad. 100 lbs. 17.05	Sodium orthosilicic acid, tech., enhyd., bgs., c.i., works, 100 lbs. 34.50
thiocyanine green toner, all grades, bbs., frt. std. E. of Rock-Island, lb.	8.10	10.10	Potassium bitartrate, NF, gran., powd. bgs. lb. 00 120	Riofinc acid (see Castor oil acids, split).	Sodium orthosilicate, tech., hydrated, flake, bgs., c.i., works, 100 lbs. 27.45	
thiocyanine green toner, rehydrated, bbs., same basis, lb.	7.45	8.20	Potassium borohydride, powd. dms., 100-1,000-lb. works. lb. 18.00 20.00	Rochelle salt (see Potassium-sodium tartrate).	Sodium oxalate, 88%, bgs., t.i., works, io.	
thiethylsulfacetamide, dms., 500-lb. lots, klo. klo. klo.	8.81	-	Potassium bromate, gran., powd. 200-lb. dms., c.i., t.o.b. works. lb. 1.06	Roofing pitch (see Coal-tar pitch, roofing.)	Sodium pentachlorophosphate, beads, o.i., 30,000-lb min. lb. .45	
collins, refd, mixed, bulk, dms., c.i., drv. basis, t.o.b. Charlotte, N.C. lb.	2.81	-	Potassium bromate, NF, gran., dms., o.i., t.o.b. works. lb. 1.12	Rose oil, nat., NF, Bulgarian, etc. bota. klo. klo. 3850.00 3990.00	Sodium phosphate, 88%, bgs., t.i., works, io.	
citric acid, pure, pastes, 25-lb. cans, c.i., drv. basis, t.o.b. Charlotte, N.C. lb.	8.00	-	Potassium carbonate, kg. 47% K ₂ CO ₃ , tanks, t.w. works. 100 lbs. 15.40	Turkish, otto, bota. klo. 2250.00 3000.00	Sodium phosphate, 88%, bgs., t.i., works, io.	
tech., paste, 25-lb. cans, t.i., dry basis, t.o.b. Charlotte, N.C. lb.	6.00	-	Potassium carbonate, kg. 47% K ₂ CO ₃ , calcd., 99-100% K ₂ CO ₃ , hopper cars or trucks, lb. 20.85	Rosemary, NF, Spanish, dms., klo. klo. 8.00 14.50	Sodium phosphate, 88%, bgs., t.i., works, io.	
green B, kgs., lb.	2.20	-	Potassium carbonate, kg. 47% K ₂ CO ₃ , L.O.B. works. lb. 32.50	Tunisian, dms., klo. klo. 8.75 15.00	Sodium phosphate, 88%, bgs., t.i., works, io.	
laccopine hydrochloride, USP, dms., dms., 1,500.00 2,000.00	-	Potassium carbonate, hydrated, 83-88% K ₂ CO ₃ , dms., c.i., t.i. works. 100 lbs. 3840	Rotenone resin, 30-45%, 100-lb. dms., dms., t.i. works, frt. aquad. lb. .21 .23	Sodium phosphate, 88%, bgs., t.i., works, io.		
mento leaf oil, dms., lb.	14.60	-	Potassium carbonate, t.i. lb. 78	Sodium phosphate, 400-lb. dms., c.i., frt. aquad. lb. .78	Sodium pentobarbital (see Pentobarbital-sodium).	
mento oil, 80% min. alcohol content, bulk, f.o.b. works. 100 lbs. dms., c.i., t.i., same basis, 100 lbs.	47.00	63.00	Potassium carbonate, t.i. lb. 7.02	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. 17.00	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
mento oil, 80% min. alcohol content, bulk, f.o.b. works. 100 lbs. dms., c.i., t.i., same basis, 100 lbs.	51.00	64.00	Potassium carbonate, t.i. lb. 1.12	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. 28.50	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Pinene, perfume grade, klo. lb.	1.82	.23	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.24	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. 32.00	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Pinene, perfume grade, tanks, klo. lb.	2.30	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.39	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. 20.80	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Perazine, anhyd., dms., t.i., frt. std. E. lb.	.35	.40	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.40	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. 20.00	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Perazine citrate, 35%, dms., 1,100-lb. lots, frt. std. lb.	2.25	2.35	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.41	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .57	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Perazine dihydrochloride, 63%, dms., t.i., frt. std. lb.	2.00	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.42	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .78	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Perazine hexahydrate, 44%, dms., 1,100-lb. lots, frt. std. lb.	1.80	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.43	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. 17.00	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Perazine phosphate, 42%, dms., t.i., frt. std. lb.	1.80	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.44	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .52	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Peridine diet, 98% min., dms., c.i., t.i., frt. std. lb.	6.92	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.45	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Peronyl butoxide, dms., chd. E. lb.	5.00	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.46	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Potassium, metal, works. Troy oz. 502.00	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.47	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.		
Polyacrylate resin, pellets, nat., t.i., frt. std. lb.	1.84	1.88	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.48	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyester resin, unsaturated, g.p., orthophthalic, bulk, tanks, klo. lb.	.51	.53	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.49	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .52	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
leophthalic, same basis, lb.	.58	.62	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.50	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
diethylene resin, high-density, blow molding, g.p., hopper cars, frt. std. lb.	.43	.48	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.51	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Injection molding, g.p., hopper ears, frt. std. lb.	.43	.48	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.52	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
extrusion, g.p., hopper cars, same basis, lb.	.47	.48	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.53	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
wire and cable, nat., hopper cars, same basis, lb.	.45	.49	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.54	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
wire and cable, black, same basis, lb.	.56½	.57	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.55	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyethylene resin, low-density, film liner, hopper cars, frt. std. lb.	.38	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.56	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
clarity film, hopper ears, frt. std. lb.	.37	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.57	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
pellet shrink film, hopper cars, same basis, lb.	.35	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.58	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
extrusion coating, hopper cars, same basis, lb.	.38	.42	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.59	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyethylene linear low-density g.p. resin, lb.	.38	.40	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.60	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
blown film resin, lb.	.40	.43½	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.61	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
cast film resin, lb.	.40	.46	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.62	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyethylene resin, low-density injection molding, g.p., hopper cars, same basis, lb.	.45	.48	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.63	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
line wire, CATV, power cable, lb.	.847	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.64	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
wire and cable thermoplastic, high-voltage, natural color, same basis, lb.	.70	.74½	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.65	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
wire and cable jacketing, black, lb.	.87½	.72½	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.66	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polymix sulfate, USP, bulk, 50-billion units min., million units.	.52	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.67	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works. lb.	.73	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.68	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works. lb.	.73	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.69	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polypropylene resin, homopolymer, g.p., nat., t.i., frt. std. lb.	.45	.48	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.70	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
copolymer, med. impact, nat., same basis, lb.	.50	.58	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.71	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
high impact, same basis, lb.	.53	.60	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.72	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Colored material 6c, per lb. higher for each grade.	-	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.73	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Polystyrene resin, cryst., nat., hopper ears, frt. std. lb.	.48	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.74	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
Impact, nat., hopper cars, same basis, lb.	.51	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.75	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
high heat, high impact, nat., hopper cars, same basis, lb.	.52	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.76	Sodium phosphate, 400-lb. dms., c.i., t.i., works, East. 100 lbs. .51	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
expandable beads (EPS), pkging grade, 1,000-lb. lots, lb.	.69	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.77	Sodium phosphate, 400-lb. dms., c.i., t.i., works, West. 100 lbs. .62	Sodium perborate, tetranydrate, tech., bgs., c.i., t.i., works, lb.	
modified, same basis, lb.	.73	-	Potassium chloride, 43% KCl, tanks, t.w. lb. 1.78	Sodium phosphate, 400-lb. dms		

CHEMICAL PRICES

WEEK ENDING AUGUST 8, 1986

Sulfuric acid, virgin 100% tanks, works,	
East Coast ton	71.75 95.00
Gulf Coast ton	75.00 88.40
Midwest ton	80.25 -
South ton	86.15 -
West Coast ton	86.00 -
NOTE: For prices on 60 & 80% H ₂ SO ₄ , multiply by .7767 and 93.91 respectively. For price of 10% fuming caustic, as is, add \$3.44 to above prices and multiply by 1.045.	
Sulfuric acid, smaller, 100% tanks, works,	
Gulf Coast ton	48.00 52.00
New Mexico ton	20.00 25.00
Southeast ton	83.15 -
63%, tanks, divd., Northwest ton	60.00 65.00
Sulfonized oil, cruds, l.b.	
Imports lb.	.19 .20
Superiority, 40%, 48% or more, e.g., run-off-pila, bulk, c.i.t., F.a. ton	2.75 3.05
bulk, gran., o.l., Fla. ton	180.00 185.00

Talc, dom., grnd, New York bgs, c.i.t., works ton	84.00 -
98.5%, 325 mesh, bgs, c.i.t., works ton	84.00 90.00
Talc, dom., 89.5%, 400 mesh, micronized, c.i.t., works ton	187.00 238.00
920 mesh, micronized, bgs, c.i.t., works ton	200.00 -
dom. ord., Calif. grnd, bgs, c.i.t., works ton	80.00 -
ord., Vermont, off-color grnd, bgs, c.i.t., works ton	138.00 -
Imp., Canadian, grnd, bgs, c.i.t., works ton	70.00 84.00
Talc oil, crude, Southeast, tanks, works, frit, equiv. ton	135.00 140.00
oil, tank, generic name ton	.81 -
Talc oil acids, 2% or more, tanks, works, frit, equiv. ton	.19 .23
Talc oil acids, 2% or more, tanks, works, frit, equiv. ton	.20 2/2 .23/2
Tallow (see Oils, Fats & Waxes market report)	22 .27
Tallow, fatty acids, lech., non-ret., c.m., c.i.t., divd., ton	37 .40
tanks, divd., ton	29 .45
hydrogenated, lech., lata, bgs, c.i.t., divd., ton	.37 .33
tanks, divd., ton	.35 .42
Tangerine, Fla., cms. L.o.b. ton	10.50 22.00
flaten, dms. ton	.52 .80
Tanlage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tanlage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
Tanlage, powd., dms. ton	4.82 -
Tanlage, 15-18% H ₂ SO ₄ , dms. L.o.b. ton	1.40 -
25-28% L.L. dms., L.o.b. works, gal. ton	1.59 -
50-53% L.L. dms., L.o.b. works, gal. ton	1.97 -
Tartaric acid, NF, bgs. ton	1.20 -
Tellurium, metallurgical, L.o.b. works ton	12.00 -
Tetraphydrate, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	1.40 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tangerine oil, Fla., cms. L.o.b. ton	10.50 -
flaten, dms. ton	.52 .80
Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
Tanlage, powd., dms. ton	4.82 -
Tanlage, 15-18% H ₂ SO ₄ , dms. L.o.b. ton	1.40 -
25-28% L.L. dms., L.o.b. works, gal. ton	1.59 -
50-53% L.L. dms., L.o.b. works, gal. ton	1.97 -
Tartaric acid, NF, bgs. ton	1.20 -
Tellurium, metallurgical, L.o.b. works ton	12.00 -
Tetraphydrate, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	1.40 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tangerine oil, Fla., cms. L.o.b. ton	10.50 -
flaten, dms. ton	.52 .80
Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
Tanlage, powd., dms. ton	4.82 -
Tanlage, 15-18% H ₂ SO ₄ , dms. L.o.b. ton	1.40 -
25-28% L.L. dms., L.o.b. works, gal. ton	1.59 -
50-53% L.L. dms., L.o.b. works, gal. ton	1.97 -
Tartaric acid, NF, bgs. ton	1.20 -
Tellurium, metallurgical, L.o.b. works ton	12.00 -
Tetraphydrate, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	1.40 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tangerine oil, Fla., cms. L.o.b. ton	10.50 -
flaten, dms. ton	.52 .80
Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
Tanlage, powd., dms. ton	4.82 -
Tanlage, 15-18% H ₂ SO ₄ , dms. L.o.b. ton	1.40 -
25-28% L.L. dms., L.o.b. works, gal. ton	1.59 -
50-53% L.L. dms., L.o.b. works, gal. ton	1.97 -
Tartaric acid, NF, bgs. ton	1.20 -
Tellurium, metallurgical, L.o.b. works ton	12.00 -
Tetraphydrate, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	1.40 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tangerine oil, Fla., cms. L.o.b. ton	10.50 -
flaten, dms. ton	.52 .80
Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
Tanlage, powd., dms. ton	4.82 -
Tanlage, 15-18% H ₂ SO ₄ , dms. L.o.b. ton	1.40 -
25-28% L.L. dms., L.o.b. works, gal. ton	1.59 -
50-53% L.L. dms., L.o.b. works, gal. ton	1.97 -
Tartaric acid, NF, bgs. ton	1.20 -
Tellurium, metallurgical, L.o.b. works ton	12.00 -
Tetraphydrate, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	1.40 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tetraphydrate, lech., lata, bgs, c.i.t., divd., ton	.35 -
Tangerine oil, Fla., cms. L.o.b. ton	10.50 -
flaten, dms. ton	.52 .80
Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	12.00 -
Tanlage, NF, imp., cryst., powd., 30-lb. drums, L.o.b. ship, pl. in equiv. ton	8.09 -
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Tankage, animal feeding, 9-11%, NH ₄ -NH ₃ , New York, bulk ton	5.50 -
Tankage, fert. grade (see Nitrogenous process tankage), tankacid, NF, italy, bbs, 1,000-lb. lots ton	

UPE

UNIVERSAL PROCESS EQUIPMENT, INC.
MAILING ADDRESS: BOX 338, ROOSEVELT, NEW JERSEY 08655
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WE WANT TO BUY YOUR SURPLUS USED EQUIPMENT/PROCESSES/PLANTS

OVER 15,000 PIECES OF PROCESS EQUIPMENT IN STOCK...CALL TODAY!

LATEST ADDITIONS

(5) 440 cu. ft. SS rot. vac. dryers comp. w/ dust collectors, condenser etc.
(1) 4000 gal. G/L reactor 100FV/150FV
(1) 6000 gal. SS reactor 70/175 psi, 1/2 pipe coil jkt.

48" x 24" TOLHURST SS "BATCHAMATIC" CENTRIFUGE
COMPLETE LATE MODEL STILL INSTALLED (6)
75 HP BIRD CS HORIZ. SOLID BOWL CENTRIFUGE (4)

38" x 20' WESTERN PREC. SS TYPE 16-3320-12
CONVEYOR, DRYER/CRYSTALLIZER

(2) 1200 TONS CARRIER KILN SYSTEM
2 LATE MODEL 6' x 61' RENNENBERG 304 SS ROTARY DRYERS COMPLETE

NASH VACUUM PUMP SYSTEM MDL. CL 3001 AND MDL. 9001 COMPLETE WITH MOTOR & ACCESSORIES

5 CU. FT. DBL. CONE SS VACUUM DRYER
10,000 TON/YEAR MALEIC ANHYDRIDE PLANT

2 DRAIS 30 HP BAND MILLS
12" x 30" & 24" x 38" SS S/B CENTRIFUGE

2 SS NIAGARA 42-310-22 VERT. LEAF FILTERS
CUMBERLAND PELLETIZERS 6" x 6"(7)

FPI GRANULATOR MDDLE 70, 3HP (5)
30 CU. FT. 316 SS DBL. CONE VAC. DRYER
36 SQ. FT. LUWA THIN FILM EVAPORATOR

10,000 GAL. HAST C TANK, AGITATED, 60 PSI
6,500 GAL. INCONEL REACTOR, 60 PSI, AGIT.
2,000 GAL. 316SS REACTOR, 1000/100 psi
1,300 GAL. 316SS REACTOR, 150 FV/125 PSI

4000, 5000, 6000 GAL. AGITATED
REACTORS VERY ATTRACTIVE PRICES

CENTRIFUGES

BASKET 48" x 30" Sherglare 316 mld. T1600 (3)
48" x 30" Telturfar Hest. C Auto (3)

48" x 24", 316SS, Automatic, W/plow

PUSHER TYPE Bird-Eacher Wyre, 316SS, Mdl. P500, 20", UNUSED

DeLevel, 25", 2-Stage, 316SS

DISC/BOWL DeLevel, Mdl. 8RPX-309, SS vert., 2 Mdl. 8AF 50, 8S

Westphal, 304 SS Mdl. SANN-5036

DeLevel, 25", 2-Stage, 316SS

SOLID BOWLS Sherglare, Mdl. P4000, P8000, P6000, P5000, (2), BY 414 SS

Bird, 40" x 60", 38" x 72", 32" x 50", 24" x 36", 18" x 28" SS

Potofeknik Mdl. 6000 comp. w/control

VACUUM DRYERS 325 cu. ft. Abbe, 304 SS dbl. cone

200 cu. ft. 316SS, 6" x 16", rotary

164 cu. ft. Devine 304 SS dbl. cone

164 cu. ft. Paterson "Conafon," 316SS Dbl. cons

150 cu. ft. SS Twin Shell

150 cu. ft. SS, & 150 cu. ft. Nicksi cled

125 cu. ft. SS & CS, 4' x 14', 105/100/150 psi

125 & 83 cu. ft. Butovsk SS Rotary

60 cu. ft. Paterson Kelly, SS, dbl. cone

40, 30 & 20 cu. ft. Stokes, SS rotary (4)

30 cu. ft. Pfaudler G/L dbl. cone vacuum

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CHEMICAL MARKETING REPORTER

SPECIALTY CHEMICAL LIQUIDATION

1,000 GAL. G/L REACTOR, 90FV/105 TW DR, MECH. SEAL
750 GAL. G/L RA SERIES, 100FV/100 PSI
500 GAL. RA SERIES, 100FV/100 PSI TW DR, MECH. SEAL (3)
300 GAL. SERIES ELC/G/L REACTOR, 100/65 PSI, TW DR, MECH. SEAL (5)
200 GAL. SERIES EM/G/L REACTOR, 50/90 PSI (4)
8,000 GAL. HORIZONTAL, 2 COMPARTMENTS
2,000 GAL. PFAUDLER, HORIZONTAL, 100FV/90 JKT.
500 GAL. PFAUDLER, VERT. G/L JKT, 100FV/55 JKT.
200 GAL. G/L RECUPERATOR, 25 PSI INT. (4)
100 GAL. GLASCOTE G/L RECEIVER (3)
50 GAL. GLASS LINE RECEIVER, 24" dia. x 24" (4)
20 GAL. PFAUDLER, G/L THIMBLE CONDENSER, 35/100PSI (4)
48" x 20' WESTERN PREC. SS TYPE 16-3320-12
CONVEYOR, DRYER/CRYSTALLIZER

(2) 1200 TONS CARRIER KILN SYSTEM

2 LATE MODEL 6' x 61' RENNENBERG 304 SS ROTARY DRYERS COMPLETE

NASH VACUUM PUMP SYSTEM MDL. CL 3001 AND MDL. 9001 COMPLETE WITH MOTOR & ACCESSORIES

5 CU. FT. DBL. CONE SS VACUUM DRYER
10,000 TON/YEAR MALEIC ANHYDRIDE PLANT

2 DRAIS 30 HP BAND MILLS

12" x 30" & 24" x 38" SS S/B CENTRIFUGE

2 SS NIAGARA 42-310-22 VERT. LEAF FILTERS

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30 CU. FT. 316 SS DBL. CONE VAC. DRYER

36 SQ. FT. LUWA THIN FILM EVAPORATOR

10,000 GAL. HAST C TANK, AGITATED, 60 PSI
6,500 GAL. INCONEL REACTOR, 60 PSI, AGIT.

2,000 GAL. 316SS REACTOR, 1000/100 psi

1,300 GAL. 316SS REACTOR, 150 FV/125 PSI

WE WANT TO BUY YOUR SURPLUS EQUIPMENT/PROCESS UNITS/COMPLETE PLANTS

GLASS * GLASS * GLASS REACTORS

3,000 GAL. GEOTRICH, 100/90, PHILA, DRIVE
2,000 GAL. RA SERIES, 100/90 TW, REGLASSED

2,000 GAL. RA SERIES, 100/90 TW, REGLASSED

1,000 GAL. RA SERIES, 100/90 TW, REGLASSED

1,000 GAL. RA SERIES, 25/90 (4)

750 GAL. 25/90 (4)

500 GAL. RA SERIES, 100/90, TW

400 GAL. E. SERIES, 25/90, TW

300 GAL. E. SERIES, 25/90, TW

200 GAL. E. SERIES, 25/90 REGLASSED, TW

100 GAL. E. SERIES, 25/90, TW

OVER 100 GLASS LINED REACTORS IN STOCK

GLASS LINED TANKS

FROM 5-22,000 GALLONS

TRAILER LOADS OF GLASS LINED PARTS AVAILABLE

* LOU FALCONE - OUR G/L SPECIALIST WITH 21 YRS. EXPERIENCE IS HERE TO HELP YOU!

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12'x15' "EHCOBEIT" ROTARY VAC. FILTER SYSTEMS (3)

8'x20' EMCO, 316SS, HORIZ. VAC. BELT EXTRACTOR

5'x14' EMCO, 316SS, PRECOAT ROTARY VAC. FILTER

8'x12' AMETEK, 316SS, PRECOAT ROTARY VAC. FILTER, 300 SQ.FT.

5'x8'6" AMETEK, 316SS, ROTARY VAC. FILTER, 137 SQ.FT.

5'x10'6" AMETEK, 316SS, ROTARY VAC. FILTER, 200 SQ.FT.

5'x10'6" AMETEK, 316SS, BELT EXTRACTOR SETTLERS (3)

12'x10'6" AMETEK, 316SS, BELT EXTRACTOR

42'x12' SHARPLINE ALP POLYPRO COR. FILTER PRESS, 57 CHAMBERS

50'x10'6" ALP POLYPRO COR. FILTER PRESS, 57 CHAMBERS

50'x10'6" ALP POLYPRO COR. FILTER PRESS, 57 CHAMBERS

42'x12' DURCO QUADRAPPRESS MDL. QPF-42/20-85, POLYPRO

DUST COLLECTORS

58 & 68, PULSE JET AND SHAKER TYPE

400-112,000 SQ.FT.

WE HAVE OVER 700 SS TANKS IN STOCK

WE WANT TO BUY YOUR SURPLUS EQUIPMENT/PROCESS UNITS/COMPLETE PLANTS. WE HAVE OUR OWN DISMANTLING CHEW

MUCH MORE!!

COMPLETE PLANT SITE FOR SALE

Former Synthetic Gas Plant. 60 acres of land, 75,000 sq. ft. of building built in mid 70's. Complete with all improvements including rail and pipeline transmission. We will sell entire facility or individual pieces of equipment. Major pieces are:

(2) 7.2 million cu. ft. per day hydrogen plant

(4) 150,000 LB/HR 620 psi Boilers complete with Demineralizer systems

(2) 2500 KVA Generators

Emergency Turbine Generator Set
Centaur 3700 HP complete

100's of Heat exchangers-CS and SS up to 15,000 sq. ft.

100's of Pumps and Compressors

100's of Tanks - both atmospheric and pressure

CALL FOR DETAILS!

19,000 GAL. 316 SS FERMENTATION SYSTEM

RIGGING/DISMANTLING DEMOLITION/ASBESTOS REMOVAL

WE ARE EXPERTS AT DISMANTLING, REERECTION, RIGGING DEMOLITION AND ASBESTOS REMOVAL WITH TERRIFIC REFERENCES BOTH NATIONALLY AND INTERNATIONALLY

CALL US TODAY FOR A QUOTATION ON YOUR CURRENT NEEDS OR ADD US TO YOUR BIDDERS LIST FOR ANY FUTURE PROJECT (201) 390-9550

COMPLETE PLANT AVAILABLE FOR SALE

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300 TPD

700 TPD

UREA

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250 TPD

760 TPD

AMMONIUM NITRATE

450 TPD

550 TPD

ETHANOL

550 TPD

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DRUM DRYERS/FISKERS

(1) 24" dia. x 38" Bulova 88 dbl. drum dryer

(2) 32" dia. x 38" Blaw Knox Cl dbl. drum

(3) 32" dia. x 17'6" Sandvik SS belt taker

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CALL US WITH YOUR SURPLUS EQUIPMENT LIST "UNUSED" EQUIPMENT

UNUSED CENTRIFUGES

21583-Sharpley P5400 Sanitary Centrifuges w/200 HP motor, 2S HP backdrive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL

CALL: Ken Kyte (312) 350-2200

CENTRIFUGES

20827-Bird, 16" x 24" steel, conical bowl.

20828-Bird, 24" x 36", steel, con. bowl, gearbox.

20819-Bird, 24" x 36", S/S, 15 degree, contour bowl.

20884-Bird 32" x 60", S/S, 15 degree, contour bowl.

20854-Bird 32" x 60", S/S, T316L contour, 75HP.

20883-Bird 30" x 60" contour, 10 HP, T317 ELC.

20137-Nile Level, N/A 10-631-80, 316SS, gearbox.

17038-Dorr Ovate, 304SS, Marco mod. 16, 30 HP.

13655-Sharples, mod. P, 800, gearbox.

18787-Unused Sharples, 3 phase, P3000, 500 HP, available.

Strong Scott Solidare 24" dia x 16", S/S, jkt. No mtr.

FILTER-ROTARY VAC.

19844-Bethlehem Porcupine Processor/Polyester Chip Crystallizer 30" dia x 16" long, T304 SS, kit, 20 HP (6) available.

Strong Scott Solidare 24" dia x 16", S/S, jkt. No mtr.

FILTER PRESSES

16649-Shivert PAF filter press, 12" x 12" alum. plates, closed delivery, 23 chambers.

20534-Sperry Filter Press, 30", alum.

20538-Sperry Filter press, 30", 35 aluminum plates, 357 sq.

15370-Shivert 32" x 32", polypropylene, 27 plates, ratchet closing.

15629-Shivert ALP, plate & frame, 16 3/8" x 36", S/S recessed plates.

20076-Sperry filter press, 36", cast iron plates, closed delivery.

19482-Independent filter press, 42" x 42", polypropylene, 4 eye closed, 34 chambers.

20550-Sperry filter press, 42" Ehd closer, 41 alum. plates.

LARGE QUANTITY PRESSURE TANKS

Used 30,000 gal Propane Tanks 9' dia x 82" lg., dish heads

200 p.s.i ASME (48)

Used 15,000 gal Butane Tanks 9' dia x 31" lg., dish heads,

pressure rated, (33)

MUST MOVE . . . PRICED TO SELL!

Call: (312) 350-2200

REACTORS

20253-Unused Reactor, 600 gal., 304SS simple jkt.

10138-Pleudler, 800 gal., 304SS simple jkt.

20099-Brighton reactor, 2000 gal., 316L SS, full dimp. jkt.

20282-Reactor, 4,000 gal., 316SS, 8' dia x 7' st. side.

15475-Brighton, 4,000 gal., 316SS, vacuum.

20287-GH Hooke, 4,000 gal., 316 SS, pipe coil jkt.

20923-Richmond Eng. Reactor, 4000 gal., T316L stain/cad.

Pleudler 10,000 gal. reactor T316L, 100 psi st. 160 psi

Pleudler 15,000 gal. reactor T316L, 100 psi st. 160 psi jkt.

TANKS-S/S

21311-Tank, 950 gal., T304SS, 5" x 8" dia bot., flat top, eqn.

21285-Tank, 5/8 vert., T316L SS, 8" dia top, eqn.

17474-1000 gal., T316SS, 5 1/2" dia x 8", 3 HP agitator.

20851-Tank, 65, 9000 gal., 12" dia x 14" H.

20855-Tank, 85, 12,000 gal., 12" dia x 14", flat bottom, open top.

17043-Jos. Oat hor. tank, 304SS, 16,000 gal., 12" dia x 22 9/16" long, 10 PSI.

DUST COLLECTORS

21125-Fabri-Mat 908-48 bin vent, 42 sq. ft.

16398-Micro dust collector, 9/3, 83 sq. ft., mod. 9-8-100, pulse jet.

21163-EVO, bin vent, 72 sq. ft., S/S 5 HP

20283-Unused EVO pulse jet collector, mod. 84BF000C, 80 sq. ft.

21192-JH Day mod. RJ-16RJ36, 128 sq. ft., CS, 3 HP.

21222-Fabri-Jet, mod. SJ018-00, 81 sq. ft.

20388-Pulse jet collector, "Flexdust," mod. 58CT24 AV II w/175 sq. ft. cloth C/S.

21288-Micro dust collector, 285 sq. ft., S/S.

20286-Unused EVO Corp. pulse jet dust collector, mod. 93B903C, 550 sq. ft.

20285-Unused EVO Corp. dust collector, shaker type, mod. M304C610, 875 sq. ft.

SCREENS

21203-Sprout-Beker eliter, 810, 6 decks.

21150-Sprout Waldron, 010, 1 HP, 10 decks, S/S cont.

21167-Sprout Waldron, 010, 2 HP, 10 decks, S/S cont.

NEW ITEMS:

20025-Pleudler 300 gal. reactor G1.

21085-Pleudler Pulse mixer, 750 gal., C/S, 80 HP, (7)

21090-Sharples P5400, D-Center, T316.

21796-Sharples P5400, D-Center, T316 w/gearbox, 1000 lb. (2)

21797-Bird 24" x 36" centrifuge, S/S, standard, (2)

21804-JH Day ribbon blower, 5 cu. ft., S/S, 80 psi jkt.

21806-Strong Scott ribbon blower, S/S, 21 cu. ft., 5HP.

21807-Chamberland Grinder, mod. 30, w/hopper.

21808-Henschel Mixer, mod. 200SS, 25 cu. ft., S/S bowl,

21818-Pfaudler Tank, 316SS vert, 12,000 gal.

MIXER/EXTRUDER

17854-AMK 25 gal. Mod. Mixtruder, Sigma, ST 7.5 HP.

18288-HM. Day 26 gal. Dispersion, 26 HP ver/main, 10 HP ver/screen.

20986-AMK 30 gal. S/S, jkt. Sigma, 7.5 HP Melt, 8 HP screw.

21334-Rose 40 gal., S/S hot (jkt), Sigma 8" dia/screw.

19826-AMK 50 gal., S/S, jkt., Sigma.

19421-AMK 76 gal., S/S, jkt., Sigma, 10" dia/screw.

17186-AMK 120 gal., S/S, 10" dia/screw, 10HP screw

19494-AMK 150 gal., S/S, Sigma 16HP melt, 10HP screw

20118-AMK 150 gal., S/S, Sigma 15HP melt, 10HP screw

60387-New Avon 500 gal., T304SS, melt extruder, Sigma, jkt., up to 2000 rpm, 15 HP, hyd. screw.

21542-Hot Conveyer, 1900, 94" x 102" x 102" (2)

21710-Hot Conveyer, 1200, 94" x 102" x 102" (2)

21710-Diverter Valves, Hirschfeld, 8", aluminum, air oper-

CENT-BASKET VERT.

20789-Sharpley SP600 Sludge-Pak, 46" x 30" S/S w/hg-

drives.

15165-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15166-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15167-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15168-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15169-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15170-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15171-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15172-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15173-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15174-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15175-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15176-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15177-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15178-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15179-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15180-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

15181-Delaval Mil. 400, 8' dia, 40", 100 psi, 316SS, 30

HP, hyd. drive.

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CMR MARKETPLACE

CHEMICAL MARKETING REPORTER'S CLASSIFIED ADVERTISING SECTION

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INFORMATION: For further classified advertising information, call 212/732-9820.

CHEMICALS OFFERED

Available from stock: trifluoroacetic acid, trifluoroacetic anhydride, trifluoroacetamide, trifluoroacetic acid ester, potassium and sodium salt of trifluoroacetic acid. Write for complete list of fluoro compounds. We undertake custom synthesis. Chem Impex, P.O. Box 175, Greendale, Wisconsin 53129 (USA). Tel.: 414-425-3800. Tex 250107. Overpack Drums 65 gallon used steel drums with rings and covers. Canfield 65 gallon drum. Tel.: 04-688-9223 or 688-0593. Telex 05-831545.

CHEMICALS OFFERED/WANTED

Chem/Mart Corp. will buy all of your surplus or off spec chemicals, plastics, pharmaceuticals and resins. Current bargain offers: 22lb. Ibs. Pentamethyl Tetrasiloxane; D-007 Resin; 40 lb. Ethylene T-30; 19M lbs. Keton d-141; Calcium Acetate, U.S.P. & Geric Acid. Prompt payment. Submit resume and salary history to: CMR 709.

POSITIONS OFFERED

Chemical Sales: Small but growing industrial chemical distributor specializing in L.T.C. products. Write for complete list of fluoro compounds. We undertake custom synthesis. Chem Impex, P.O. Box 175, Greendale, Wisconsin 53129 (USA). Tel.: 414-425-3800. Tex 250107. Overpack Drums 65 gallon used steel drums with rings and covers. Canfield 65 gallon drum. Tel.: 04-688-9223 or 688-0593. Telex 05-831545.

SERVICES OFFERED

Custom solid packaging and distribution in the port of Mobile. Multi-wall bags, bulk bags, drums and bulk. Screening, repackaging and warehousing. Rail and truck facilities. Contact: Phillip Hahn, BEAPAC, Bldg. 14A, Brookley Complex, Mobile, AL 36615. 205/433-3541.

CHEMICALS WANTED

Activa Surplus oil/surplus chemicals, pigments, dyes, resins, waxes, plastics etc. Call toll free 1-800-831-3337 or 017-629-6736. Deep Polymer Corp. Chemical Div. 17 Industrial Drive, Holden, MA 01520.

All Surplus — Chemicals — Resins — Oils — Colors — Solvents — Plastics — Specialties — Intermediates — bought by: Rembach Chemical Co., Inc. 52 Vesey Street, P.O. Box 5167, Newark, NJ 07105. Phone (201) 589-7774.

6.C.R. Buys: Vegetable Oil & Animal Fat Byproducts. Tank Bottoms — Distillates — Skimmings — Fatty Acids — Residues — Soap Stock, etc. — Off Spec. — Surplus — Any Location. Call Byproduct Chemical Recyclers, 29 W. New York Street, Aurora, IL 60506. (312) 892-8800; Telex 208852.

Cash for your surplus chemicals, resins, colors, pharmaceuticals, dyes, other raw materials, by products, wastes, residues and off-spec materials. Marmon Chemicals Inc., 5500 Walnut Street, Wilkes-Barre, PA 18702. (717) 832-4000; Telex 918133.

Realize Top Value from the sale of your surplus Chemicals. We buy surplus Chemicals, Plastics, Resins, Waxes, and Resin Chemical Co., P.O. Box 494, Fair Lawn, NJ 07410. Phone: (201) 761-2448; Telex: 13-0434.

Resyn Corp. will buy your surplus chemicals, resins and resin raw materials — prima or off-specification. Resyn Corp. P.O. Box 63, 1540 W. Blanca St., Linden, NJ 07038. (201) 862-8787.

We buy Surplus chemicals, colors, solvents, plasticizers by-products, etc. Over 50 years of service to industry. Saxon Color & Chemical Co., Inc. 65 Roosevelt Ave., Dept. C.P.O. Box 1029, Valley Stream, N.Y. 11582. (516) 781-4445.

EQUIPMENT OFFERED

Cumberland Chopper 50 hp. Mitti & Merlini "Hooper" 100 hp. 10 gal. glass lined reactor. Pfrauder, 6.5' jacketed vessels, 100-500 gals. Onions 3 X 11/2" HP Pump, 500-7000 gallon 8.8' tanks. Gaulin Hi Pressure Pumps Lester Keoh Machinery Corporation, 2081 Richmond Terrace, Staten Island, NY 10303 (718) 447-3410, Telex DRN 243 498.

Laboratory Glassware. Company dropping lab glassware business and liquidating Fisher lab glassware and Matlock's plasticware inventory at rock bottom. Substantial savings on major purchases. (308) 272-0222, Drury Chemical Co., Drury Beach, FL 33444.

Ribbon Blenders for sale. In stock and remanufactured 4 cu. ft., 60 cu. ft., and 70 cu. ft. Steinless Steel double ribbon-blenders. Tom Williams Co. 9503 Fremont, KC, Mo. 64134 816-761-7481.

Tanks For Sale: Blue Glass & Epoxy Lined Tanks up to 37,000 gal. ea. from Milwaukee and Detroit. Basicline special tanks, 100-500 gals. Brewer Works, Box 1487, Milwaukee, WI 53201-1487. (414) 272-1272.

EQUIPMENT OFFERED/WANTED

Gelatin powder/sheets. Require machinery and know-how for new plant. Interested turn-key proposition or engineering consulting. Wm. Bernstein Co., Inc. 15 Park Row, NY, NY 10038 (212) 233-9222.

POSITIONS OFFERED

Challenging Position Open: Unique opportunity to head research and development activities including implementation of a product line expansion involving mineral waxes. Ideal candidate should be knowledgeable in waxes, their properties and their industrial uses plus be versed in business planning. Technical or engineering degree desirable. Salary commensurate with experience and qualifications. Reply in confidence to: ALPCO, Box 1066, Long Beach, CA 90840.

Fertilizer Use Falls By 10 Pct., Industry Says

Domestic disappearance of fertilizers from producers was 10 percent less for the 12 months ending June 1986 than in the previous period, according to the Fertilizer Institute. Disappearance for the month of June was 19 percent less.

Disappearance was down in all product groups, in both the monthly and yearly comparisons. In the year-to-date comparison, nitrogen product disappearance declined 11 percent, processed phosphates declined 2 percent and potash products declined 11 percent, industry association says. Phosphate rock shipments were 15 percent less than in June 1985.

Exports of phosphates, including phosphate rock, were less in the July 1985-June 1986 period, except for monoammonium phosphate. Total exports of MAP improved 1 percent to 453,000 tons for the year. Phosphate rock imports totalled 249,000 tons for the year, 1913-June 1986 period.

Total phosphate inventory increased 5 percent at the end of June, compared with June 1985. The inventory of phosphate rock was 2 percent higher, concentrated superphosphate was 10 percent higher, and MAP inventory was 20 percent higher. Diammonium phosphate declined 12 percent from June 1985.

Exports of all products declined 23 percent in 1986 relative to 1985, including a decline of 48 percent in diammonium phosphate and 48 percent in solid urea. Total imports were equal to last year, with increased area imports being largely offset by lower imports of potash products, according to TFI.

Production of fertilizers was 16 percent less for the July 1985-June 1986 period, and 22 percent less in the monthly comparison. In the annual comparison, production in all product groups was less than in the previous year. In June, however, US production of potash grew 30 percent overall relative to June 1985.

Imports of potassium nitrate were 2 percent less for the year, while exports were 24 percent.

Ending inventories declined 6 percent in June 1986 compared with last year. Inventories for all product groups, except potash and mixtures, increased.

Domestic disappearance of nitrogen products was 17 percent lower in June, and 11 percent lower in the July-June comparison. Shipments of solid urea were 25 percent greater for the year, while disappearance of other products declined.

Nitrogen production dropped 24 percent in June and 14 percent in the July-June period. All products declined in the annual comparison, except ammonium sulfate, which was even with last year.

Urea imports have increased 56 percent over last year. Imports of orthodihydrazine declined 5 percent and ammonium sulfate declined 8 percent in the yearly comparison. Anhydrous ammonium exports declined 28 percent in the July-June period.

Ending inventory of nitrogen products increased 34 percent in June 1986 relative to June 1985. All produced inventories rose except urea.

The new 20-milligram capsule of "Procardia" offers a prescribing option for physicians, Pfizer says. In addition, "Cefobid" will soon be available in a drug delivery system called "Mini-Bag," a plastic container through a joint venture with Baxter Travenol.

Pfizer says the new "Procardia" capsule provides the opportunity for enhanced patient compliance through superior dosage convenience. Angina patients who are taking "Procardia" at higher doses now have the option of switching to the new 20 milligram "Procardia" capsule.

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